

S FUND RECORDS CTR
2160034

S E V E R N
T R E N T

S T L

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

December 27, 2004

STL SACRAMENTO PROJECT NUMBER: G4L040125
PO/CONTRACT: W91238-04-F-0084

Dan Jablonski
CH2M Hill Inc
3 Hutton Centre Drive
Suite 200
Santa Ana, CA 92707

Dear Mr. Jablonski,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on December 3, 2004. These samples are associated with your Omega Chemical project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4362.

Sincerely,



Diana Brooks
Project Manager

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Samples: 1, 2, 3, 4

 Sample Data Sheets

 Method Blank Reports

 Laboratory QC Reports

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G4L040125

WATER, 1625 Modified, Semivolatiles by HRMS

Sample(s): 1, 2, 3, 4

The recovery for the internal standard for the d6-Nitrosodimethylamine (d6-NDMA) had a recovery below the recommended limit of 25%. This is directly due to losses during the solvent reduction steps due to the extreme volatility of these compounds.

Isotope dilution generally precludes any adverse impact to the target compound quantitation when a signal to noise of 10:1 is achieved. In all cases this criteria was met and there is no impact to the reported data.

Note: Isotope dilution recovery corrects for losses during extraction, and the sample preparation procedures

There were no other anomalies associated with this project.



STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon	CA 20005
Arkansas	NA	South Carolina	87014001
Connecticut	PH-0691	Virginia	00178
Georgia	960	West Virginia	9930C, 334
Louisiana*	01944	NFESC	NA
Nevada	CA 044	USACE	NA
New York*	11666	USDA Foreign Soil	S-46613

*NELAP accredited. A more detailed parameter list is available upon request.

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):

An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary

G4L040125

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
G0AGN 1		OC2-OW5-W-0-86	12/2/04 08:47 AM	12/3/04 09:15 AM
G0AGR 2		OC2-OW5-W-1-87	12/2/04 09:00 AM	12/3/04 09:15 AM
G0AGV 3		OC2-OW8B-W-0-88	12/2/04 07:58 AM	12/3/04 09:15 AM
G0AGX 4		OC2-OW2-W-0-89	12/2/04 10:10 AM	12/3/04 09:15 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Chain of
Custody RecordSEVERN
TRENT

Severn Trent Laboratories, Inc.

STL

STL-4124 (0901)

Client CHUM HILL			Project Manager Tom Perino								Date 12/02/2004	Chain of Custody Number 142908	
Address 3 HUTTON CENTRE DRIVE STE 200			Telephone Number (Area Code)/Fax Number 714/429-2000								Lab Number	Page 1 of 1	
City SANTA ANA	State CA	Zip Code 92707	Site Contact DAN JABLONSKI		Lab Contact DIANA BROOKS		Analysis (Attach list if more space is needed)						
Project Name and Location (State) B MEGA CHEMICAL INITIATOR, CA			Carrier/Waybill Number 8297 2448 4880										
Contract/Purchase Order/Quote No.			Matrix		Containers & Preservatives		Special Instructions/ Conditions of Receipt						
			1234567890	1234567890	1234567890	1234567890							1234567890
Sample I.D. No. and Description (Containers for each sample may be combined on one line)			Date 12/2/04	Time 0847	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	<input type="checkbox"/>	
OC2 - OWS-W-0-86													
OC2 - OWS-W-1-87				0900	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	<input type="checkbox"/>	
OC2 - OWS-B-W-0-88				0758	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	<input type="checkbox"/>	
OC2 - OWS-W-0-89				1010	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input checked="" type="checkbox"/> X	<input type="checkbox"/>	<input type="checkbox"/>	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">RECEIVED IN GOOD CONDITION UNDER COC</div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">DEC - 3 2004</div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">INI</div> <div style="border: 1px solid black; padding: 5px; display: inline-block;">92</div>													
Possible Hazard Identification			Sample Disposal		(A fee may be assessed if samples are retained longer than 1 month)								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Turn Around Time Required													
OC Requirements (Specify)													
1. Relinquished By Chris Ron			Date 12/2/04	Time 1339	1. Received By Cheng Chen		Date 12-30-04		Time 1240				
2. Relinquished By			Date	Time	2. Received By		Date		Time				
3. Relinquished By			Date	Time	3. Received By		Date		Time				
Comments													

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN
TRENT

STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT

Ahsan Hill

PM

08

LOG #

29886

LOT# (QUANTIMS ID)

G4L040125

QUOTE#

60733

LOCATION

W8D

DATE RECEIVED

12-3-04

TIME RECEIVED

1240

12-3-04

Initials

Date

AN

12-3-04

DELIVERED BY

FEDEX

CA OVERNIGHT

CLIENT

AIRBORNE

GOLDENSTATE

DHL

UPS

BAX GLOBAL

CO-GETTERS

STL COURIER

COURIERS ON DEMAND

OTHER

CUSTODY SEAL STATUS

INTACT

BROKEN

N/A

CUSTODY SEAL #(S)

SHIPPING CONTAINER(S)

STL

CLIENT

N/A

TEMPERATURE RECORD (IN °C)

IR

1

3

OTHER

COC #(S)

142908

TEMPERATURE BLANK

11

SAMPLE TEMPERATURE

5

COLLECTOR'S NAME:

Verified from COC.

Not on COC

pH MEASURED

YES

ANOMALY

N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW

NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM

N/A

VOA-ENCORES

N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL

N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

N/A

Clouseau

TEMPERATURE EXCEEDED (2 °C - 6 °C)*

N/A

WET ICE

BLUE ICE

GEL PACK

NO COOLING AGENTS USED

PM NOTIFIED

Notes: _____

*1 Acceptable temperature range for State of Wisconsin samples is $\leq 4^{\circ}\text{C}$.

WATER, 1625 Modified, Semivolatiles by
HRMS

CH2M Hill Inc

Client Sample ID: OC2-OW5-W-0-86

Trace Level Organic Compounds

Lot-Sample #...: G4L040125-001 Work Order #...: G0AGN1AC Matrix.....: WATER
 Date Sampled...: 12/02/04 Date Received..: 12/03/04
 Prep Date.....: 12/07/04 Analysis Date..: 12/08/04
 Prep Batch #...: 4342381
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	4.6	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
N-Nitrosodimethylamine-d6	22 *	(25 - 150)		
1,2,3-Trichloropropane-d5	86	(25 - 150)		

NOTE(S) :

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OWS-W-1-87

Trace Level Organic Compounds

Lot-Sample #...: G4L040125-002 Work Order #...: G0AGR1AC Matrix.....: WATER
Date Sampled...: 12/02/04 Date Received...: 12/03/04
Prep Date.....: 12/07/04 Analysis Date...: 12/08/04
Prep Batch #...: 4342381
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	2.0	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
<u>INTERNAL STANDARDS</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
N-Nitrosodimethylamine-d6	18 *	(25 - 150)		
1,2,3-Trichloropropane-d5	65	(25 - 150)		

NOTE (S) :

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OW8B-W-0-88

Trace Level Organic Compounds

Lot-Sample #....: G4L040125-003 Work Order #....: G0AGV1AC Matrix.....: WATER
 Date Sampled...: 12/02/04 Date Received...: 12/03/04
 Prep Date.....: 12/07/04 Analysis Date...: 12/08/04
 Prep Batch #....: 4342381
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
INTERNAL STANDARDS		PERCENT	RECOVERY	
N-Nitrosodimethylamine-d6	21 *		(25 - 150)	
1,2,3-Trichloropropane-d5	65		(25 - 150)	

NOTE(S) :

* Surrogate recovery is outside stated control limits.

CH2M Hill Inc

Client Sample ID: OC2-OW2-W-0-89

Trace Level Organic Compounds

Lot-Sample #....: G4L040125-004 Work Order #....: G0AGX1AC Matrix.....: WATER
 Date Sampled....: 12/02/04 Date Received...: 12/03/04
 Prep Date.....: 12/07/04 Analysis Date...: 12/08/04
 Prep Batch #....: 4342381
 Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
INTERNAL STANDARDS	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
N-Nitrosodimethylamine-d6	24 *		(25 - 150)	
1,2,3-Trichloropropane-d5	90		(25 - 150)	

NOTE(S) :

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G4L040125

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4342381	
002	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4342381	
003	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4342381	
004	WATER	MCAWW 410.4		4342133	4342096
	WATER	CFR136A 1625 Modi		4342381	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G4L040125 Work Order #...: G0FX01AA Matrix.....: WATER
MB Lot-Sample #: G4L070000-381 Prep Date.....: 12/07/04
Analysis Date..: 12/08/04 Prep Batch #...: 4342381
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
N-Nitrosodimethylamine	ND	2.0	ng/L	CFR136A 1625 Modi
1,2,3-Trichloropropane	ND	5.0	ng/L	CFR136A 1625 Modi
INTERNAL STANDARDS	PERCENT	RECOVERY	LIMITS	
N-Nitrosodimethylamine-d6	21 *	(25 - 150)		
1,2,3-Trichloropropane-d5	84	(25 - 150)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G4L040125 **Work Order #....:** G0FX01AC **Matrix.....:** WATER
LCS Lot-Sample#: G4L070000-381
Prep Date.....: 12/07/04 **Analysis Date..:** 12/08/04
Prep Batch #....: 4342381
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>
N-Nitrosodimethylamine	87	(70 - 130)	CFR136A 1625 Modifie
1,2,3-Trichloropropane	90	(50 - 150)	CFR136A 1625 Modifie

<u>INTERNAL STANDARD</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
N-Nitrosodimethylamine-d6	28	(25 - 150)
1,2,3-Trichloropropane-d5	70	(25 - 150)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #....: G4L040125 **Work Order #....:** G0FX01AC **Matrix.....:** WATER
LCS Lot-Sample#: G4L070000-381
Prep Date.....: 12/07/04 **Analysis Date..:** 12/08/04
Prep Batch #....: 4342381
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>		<u>RECOVERY</u>	
N-Nitrosodimethylamine	100	87.4	ng/L	87	CFR136A 1625
1,2,3-Trichloropropane	100	89.7	ng/L	90	CFR136A 1625

<u>INTERNAL STANDARD</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
N-Nitrosodimethylamine-d6	28	(25 - 150)
1,2,3-Trichloropropane-d5	70	(25 - 150)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

Ics

ms/sd

sample raw data

ms tune data

Quantitation Summary

STL

Page 2 of

Run text: G0FX0-1-AAB Sample text: G0FX0-1-AAB :G4L040125~1MB
 Run #7 Filename: 08DE045SP S: 10 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 19:39:35 Processed: 9-DEC-04 15:10:42
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

Name	Resp	RA	RT	RRF	Conc	qC	EDL	Rec	M
2-Chloropyridine	50861900		11:08	-	354.08		-	-	n
D8-1,4-Dioxane	36590100		5:13	0.92	155.63		0.30	15.6	y
1,4-Dioxane	2316150		5:13	1.13	56.27	<18.0	2.49	-	n
D5-123-TriChloroPropane	54193400		10:04	2.52	84.42		0.21	84.4	n
1,2,3-TriChloroPropane	*		Not Fnd	0.50	*	<5.0	1.47	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*		-	-	n
D6-NDMA	7435450		10:15	1.40	20.86		0.15	20.9	y
NDMA	101162		10:15	1.76	0.77	<2.0	9.77	6.55	-
2-Chloropyridine	170555000		11:08	-	359.38		-	-	n

12/17/94

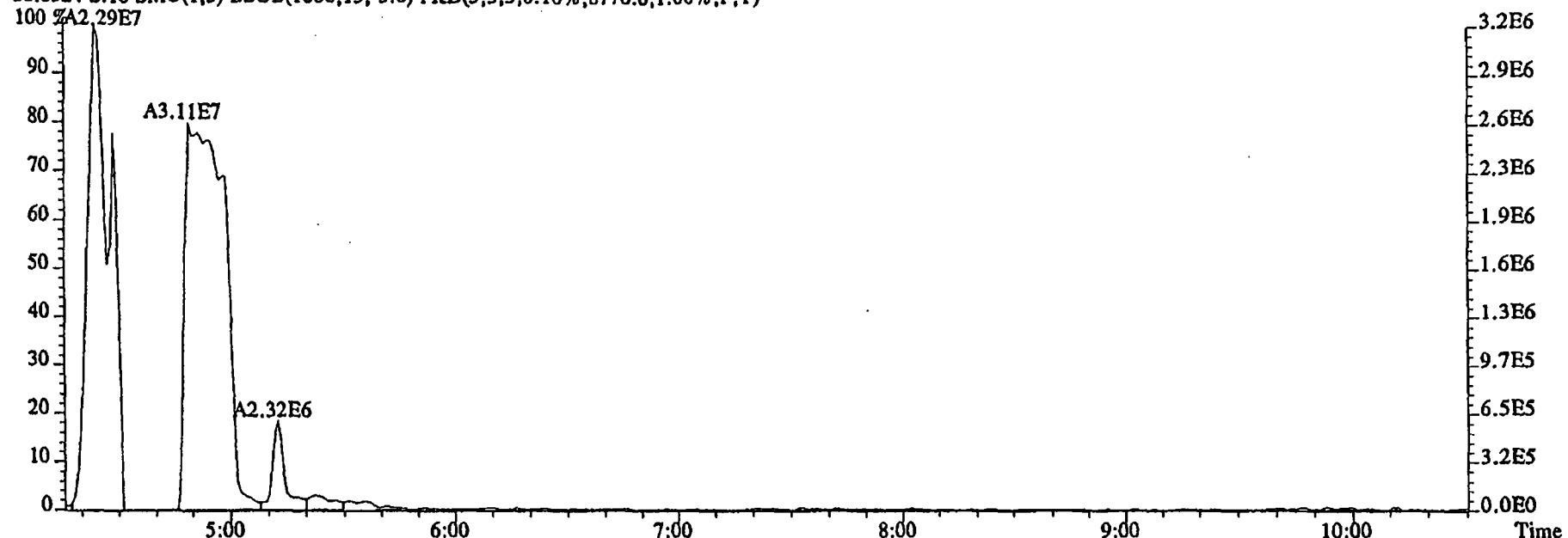
C

Run text: G0FX0-1-AAB Sample text: G0FX0-1-AAB :G4L040125-1MB
 Run #7 Filename: 08DE045SP S: 10 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 19:39:35 Processed: 9-DEC-04 15:10:42
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

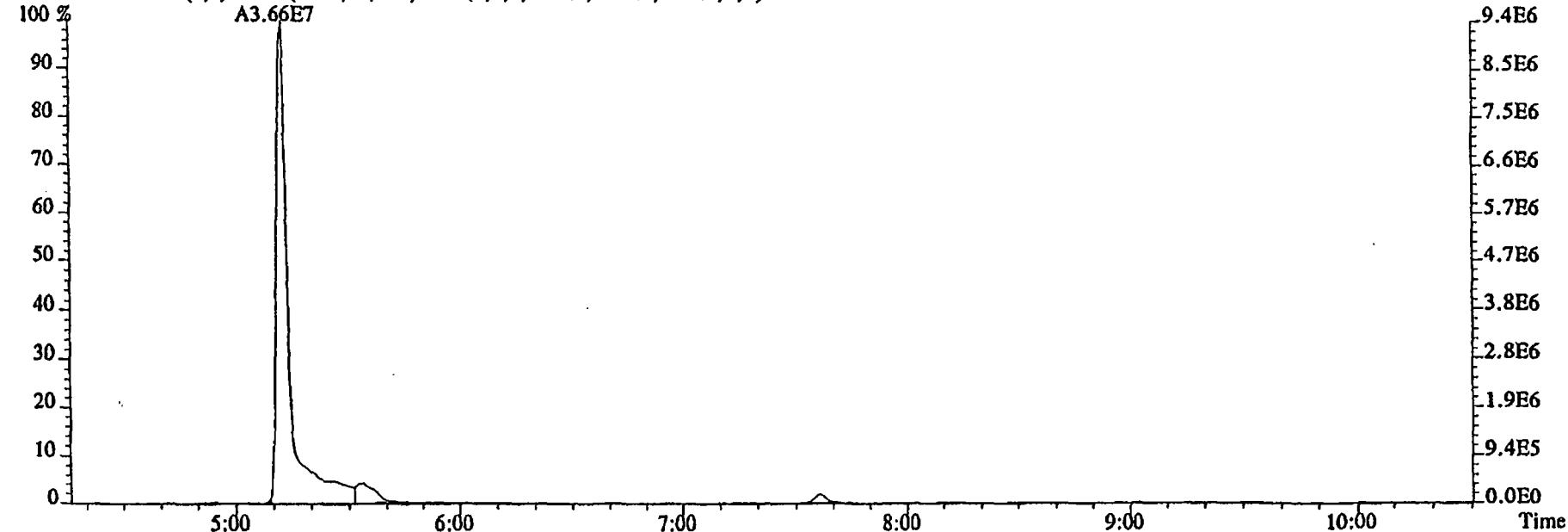
Name	Resp	RA	RT	RRF	Conc	μ	EDL	Rec	M
2-Chloropyridine	50861900		11:08	-	354.08		-	-	n
D8-1,4-Dioxane	36590100		5:13	0.92	155.63		0.30	15.6*	n
1,4-Dioxane	2316150		5:13	1.13	56.27	<1000	2.49	-	n
D5-123-TriChloroPropane	54193400		10:04	2.52	84.42		0.21	84.4	n
1,2,3-TriChloroPropane	*		Not Fnd	0.50	*	<	1.47	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*		-	-	n
D6-NDMA	7435450		10:15	1.40	20.86		0.15	20.9*	n
NDMA	*		Not Fnd	1.76	*	9.77	-	-	n
2-Chloropyridine	170555000		11:08	-	359.38		-	-	n

(2-16-81)
O'

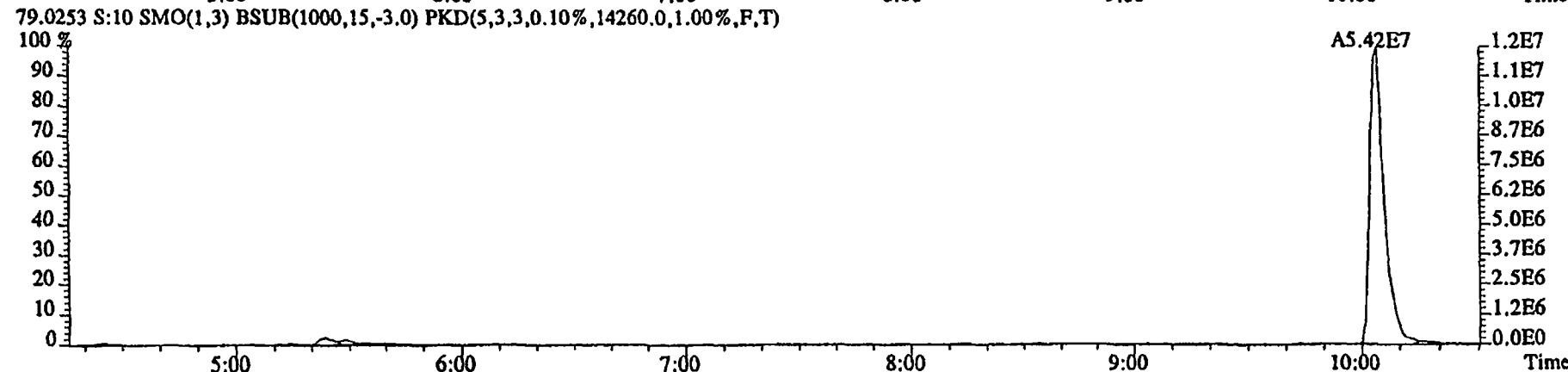
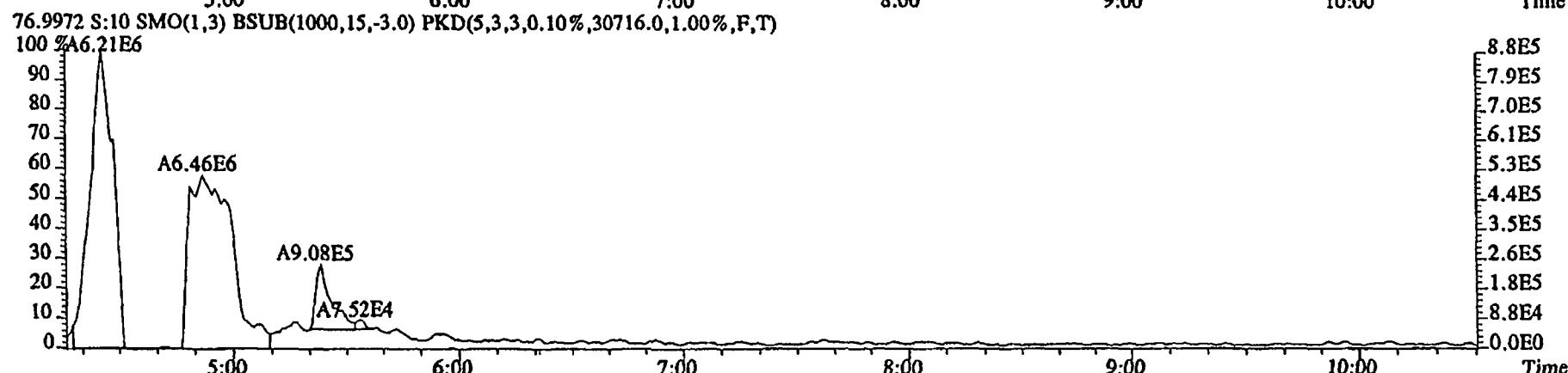
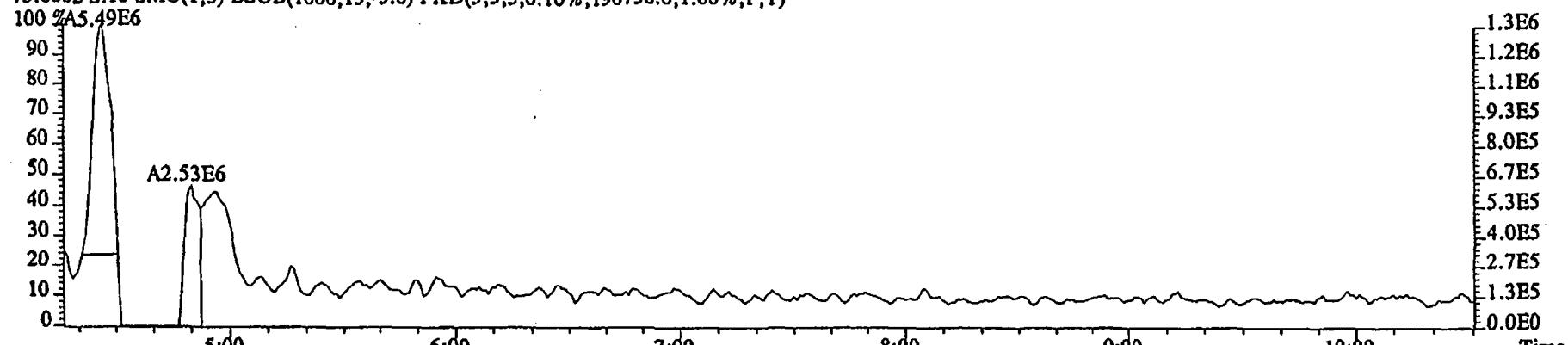
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
88.0524 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8776.0,1.00%,F,T)



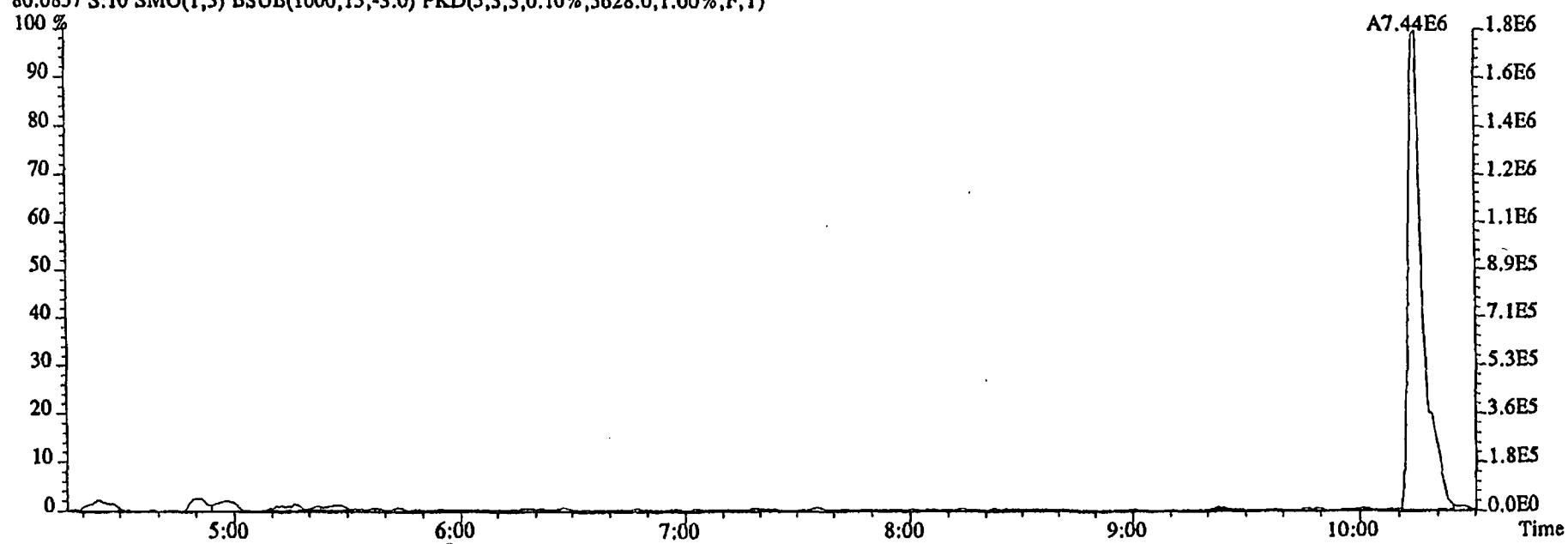
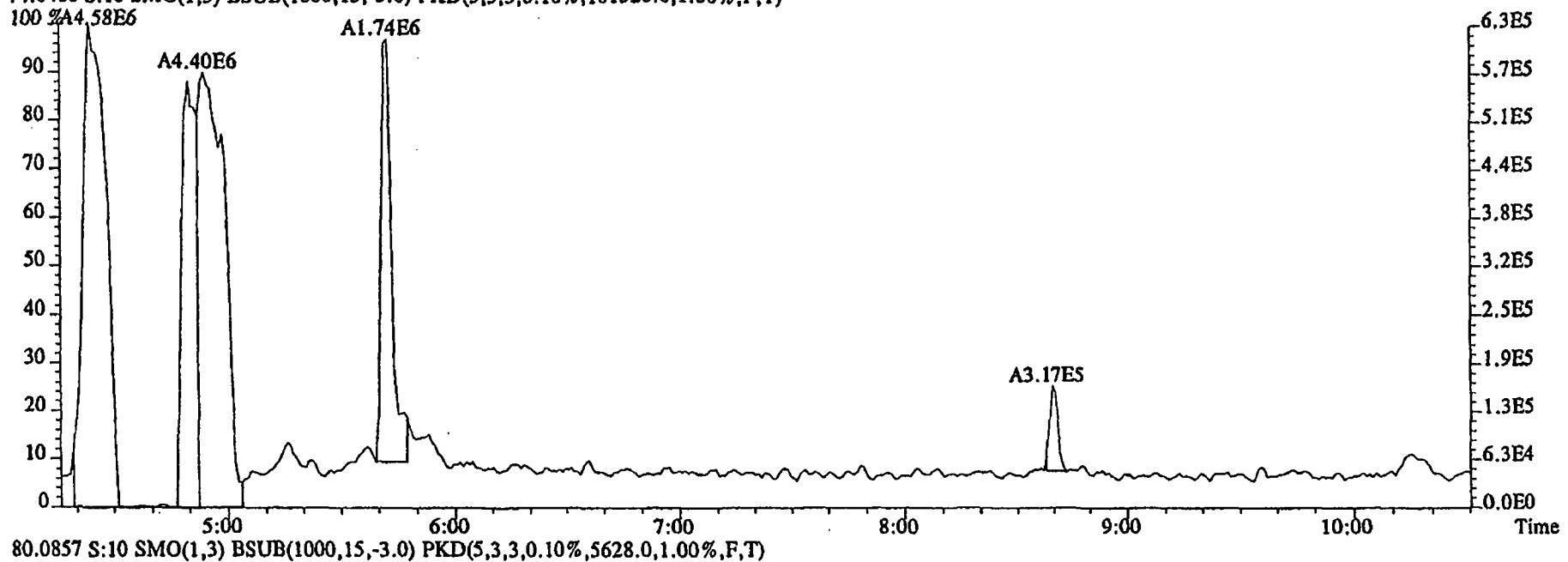
96.1026 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7556.0,1.00%,F,T)



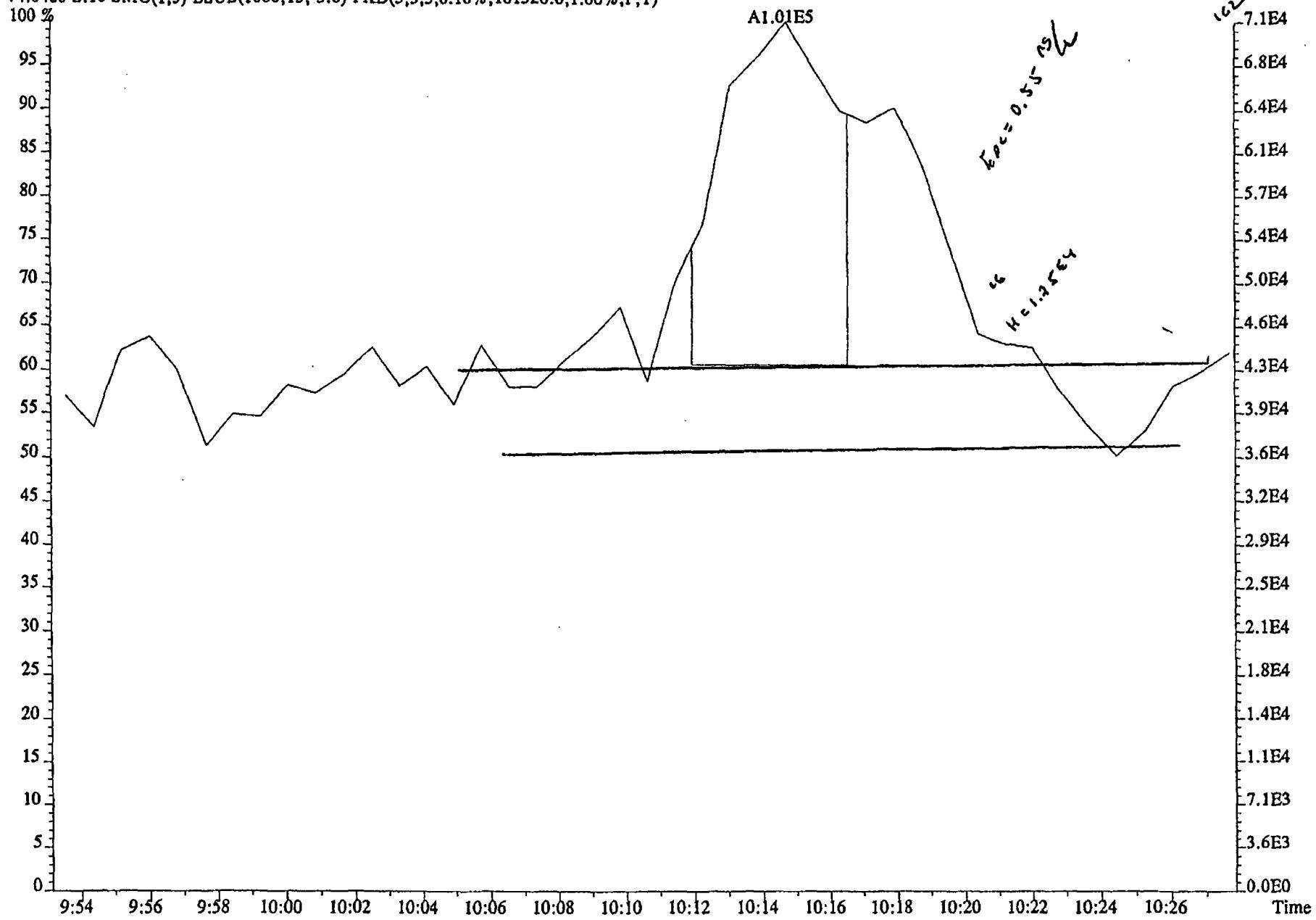
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
 Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
 75.0002 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,196736.0,1.00%,F,T)



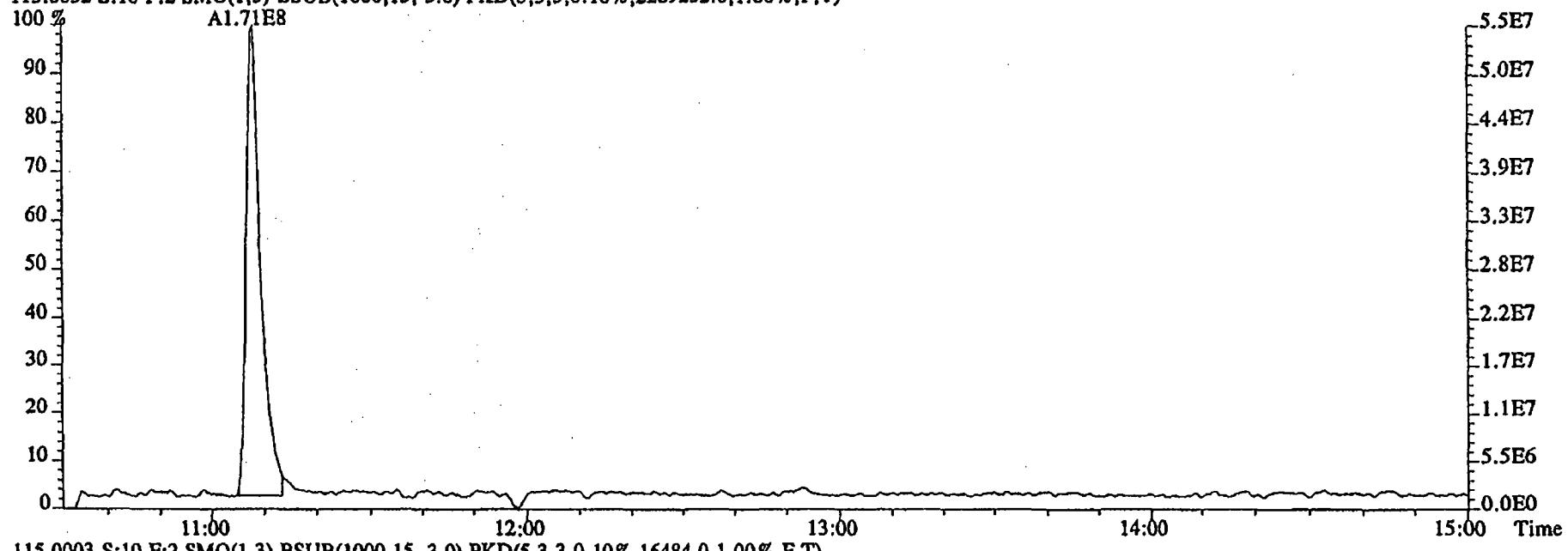
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
 Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
 74.0480 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,101520.0,1.00%,F,T)



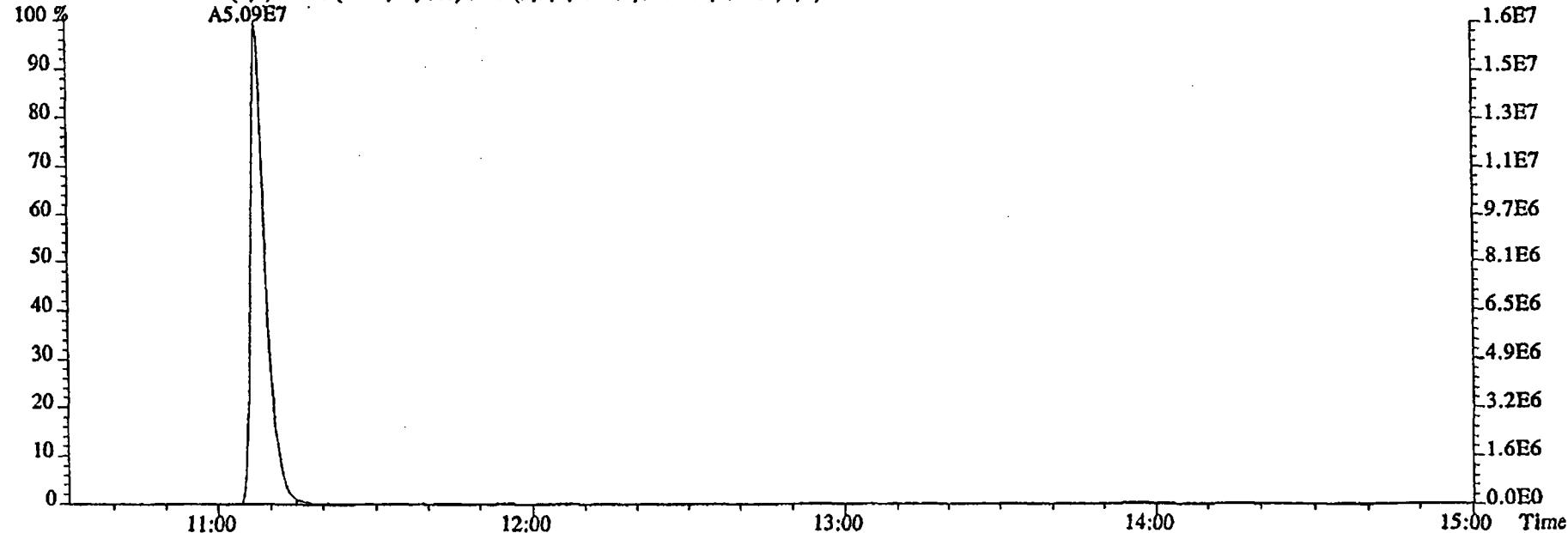
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
74.0480 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,101520.0,1.00%,F,T)



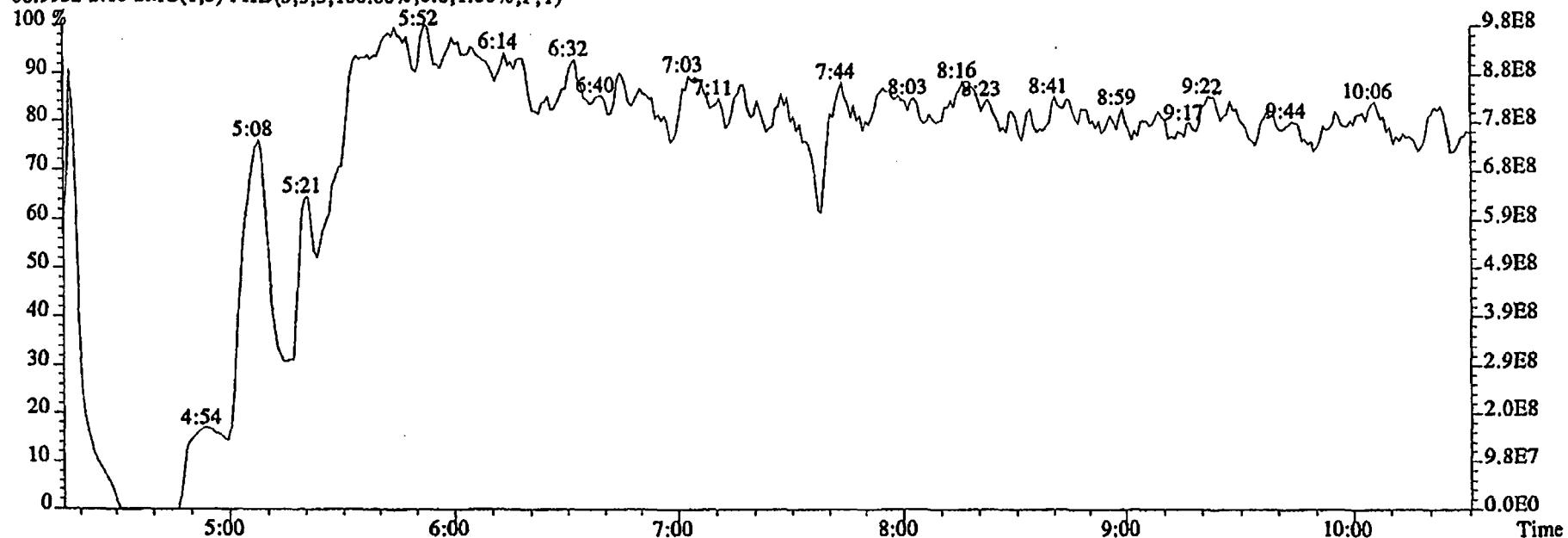
File:08DE045SP #1-626 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
113.0032 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2289232.0,1.00%,F,T)



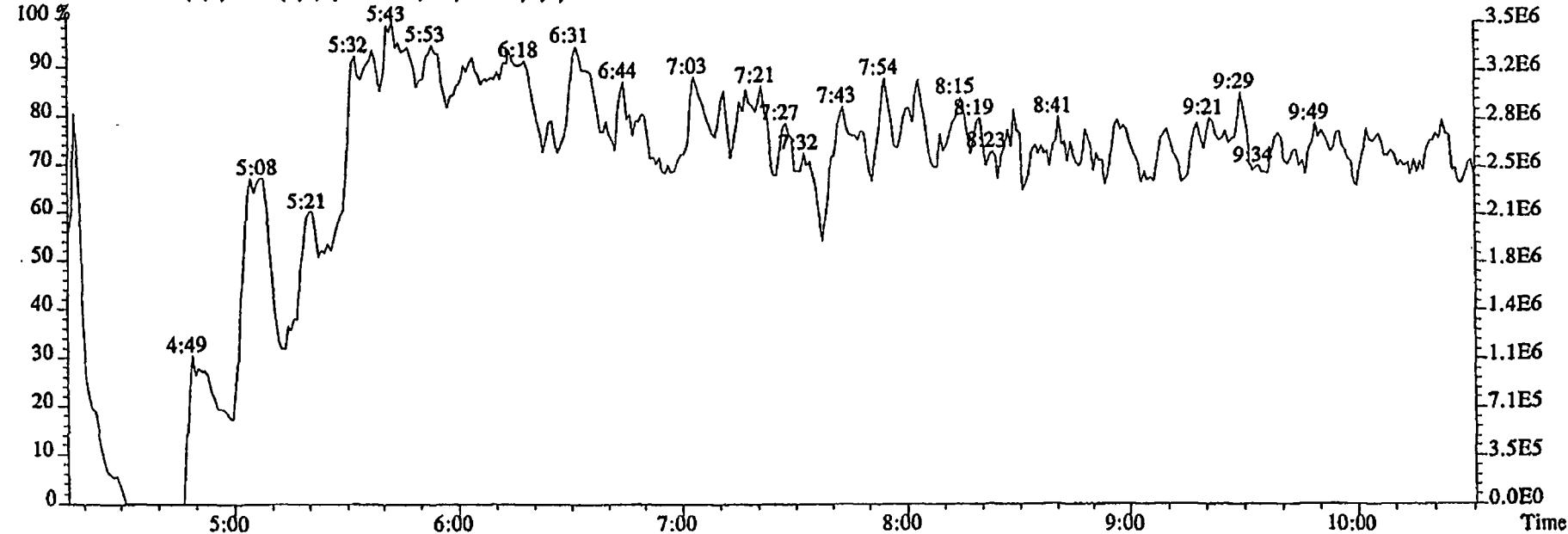
115.0003 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16484.0,1.00%,F,T)



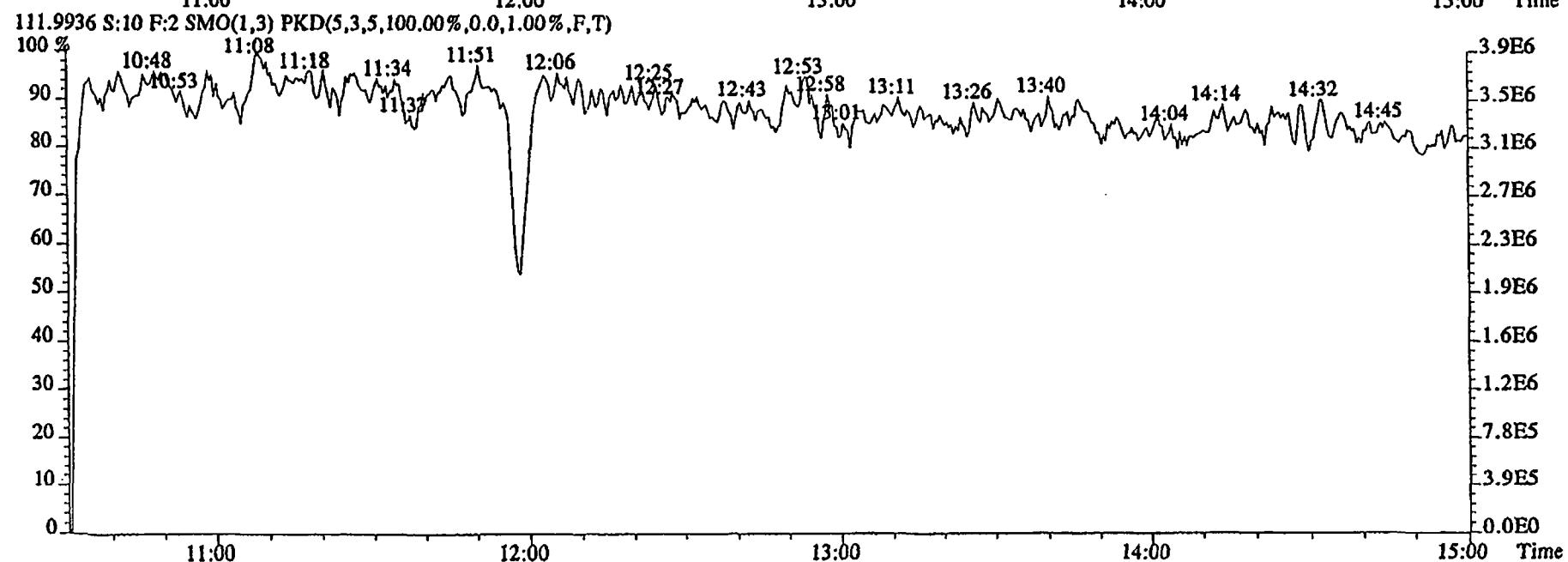
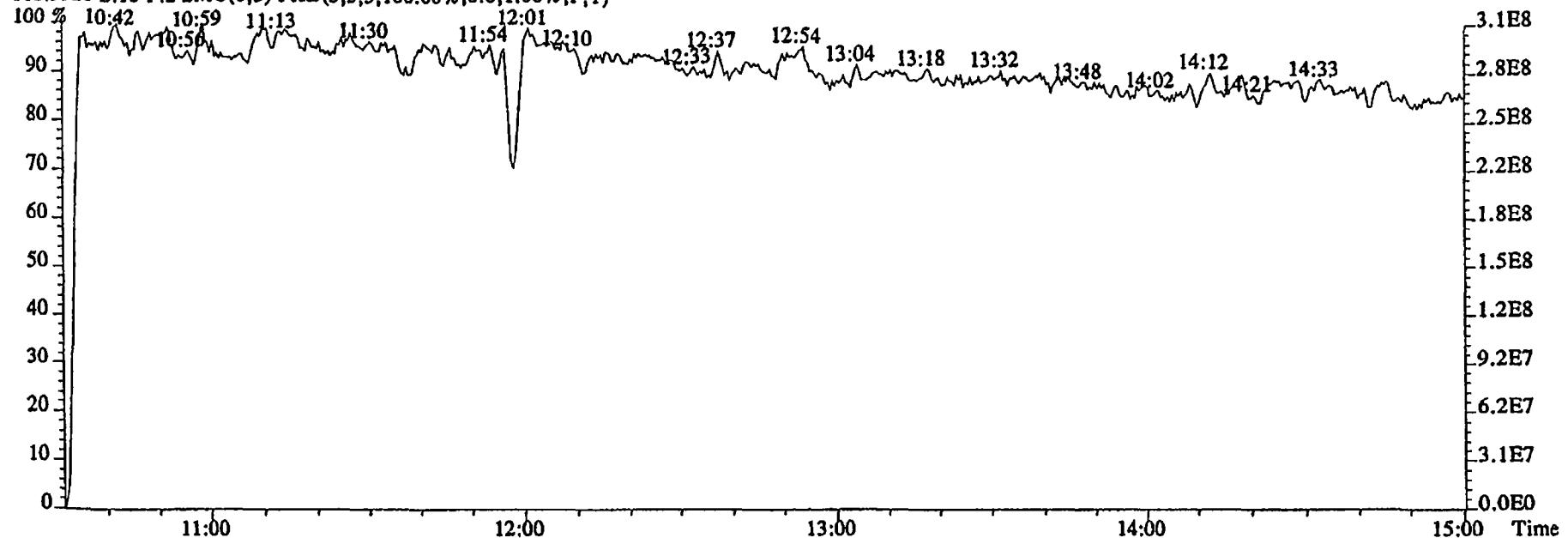
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
68.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



80.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-626 Acq: 8-DEC-2004 19:39:35 GC EI+ Voltage SIR 70SE
Sample#10 Text:G0FX0-1-AAB :G4L040125-1MB Exp:NDMAVOA
118.9920 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Quantitation Summary

STL

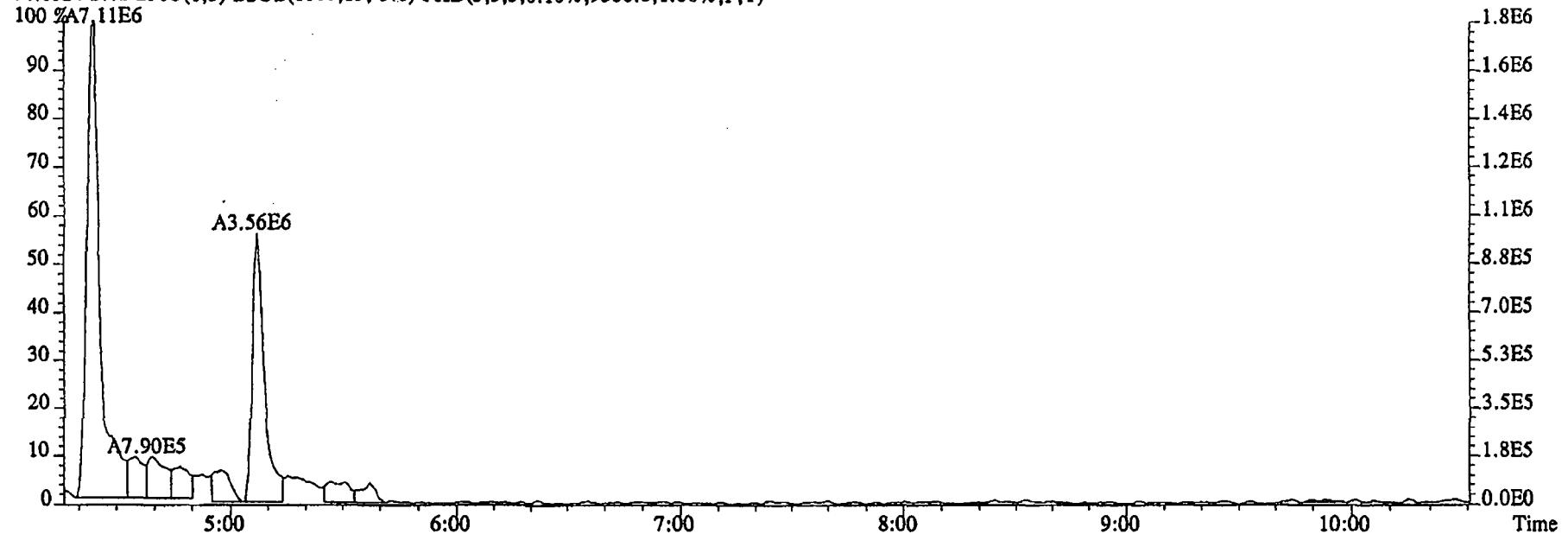
Page 4 of

Run text: G0FX0-1-ADL Sample text: G0FX0-1-ADL :G4L040125-1D^{CS}²
 Run #9 Filename: 08DE045SP S: 12 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 20:20:27 Processed: 9-DEC-04 15:10:43
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 1.000 L

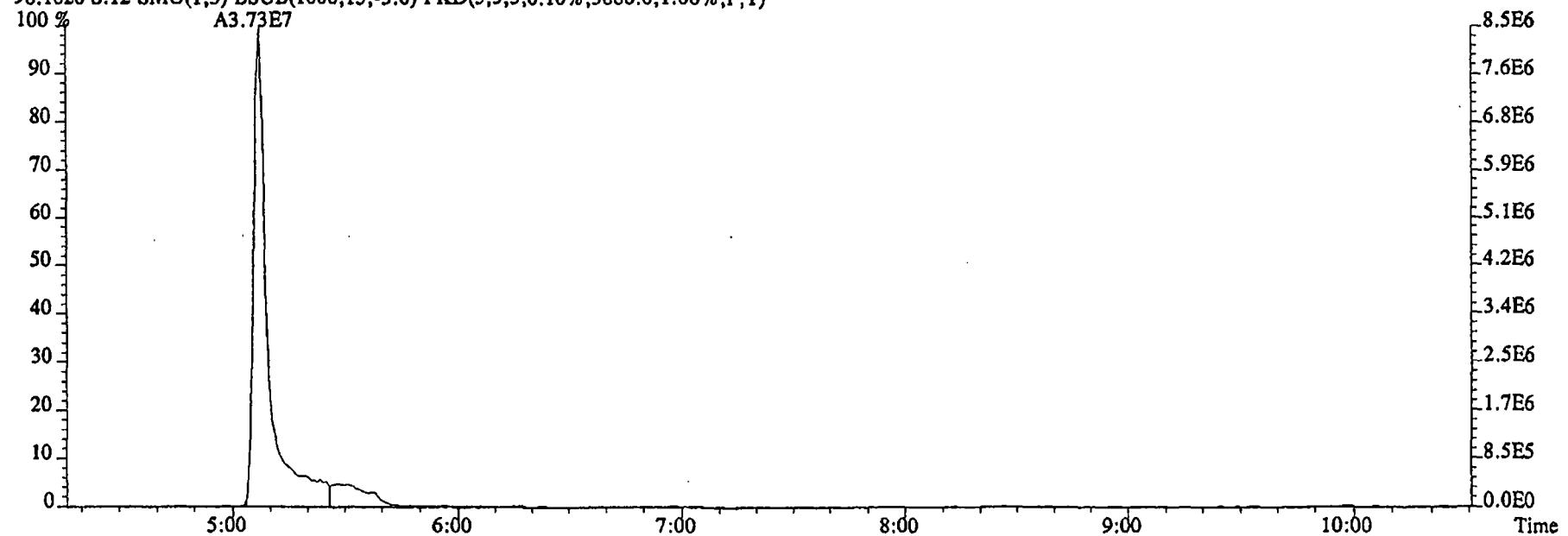
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	43421200		11:07	-	302.28	-	-	n
D8-1,4-Dioxane	37345600		5:07	0.92	186.06	0.20	18.6	n
1,4-Dioxane	3555740		5:07	1.13	84.63	2.93	-	n
D5-123-TriChloroPropane	38545000		10:03	2.52	70.33	0.10	70.3	n
1,2,3-TriChloroPropane	17445500		10:07	0.50	89.68 ✓	0.46	-	n
1,2,3-TriChloroPropane	57895300		10:07	-	101.38	-	-	n
D6-NDMA	8418580		10:13	1.40	27.67 ✓	0.10	27.7	n
NDMA	12928800		10:13	1.76	87.36 ✓	1.82	-	n
2-Chloropyridine	142118000		11:07	-	299.46	-	-	n

✓✓✓✓✓

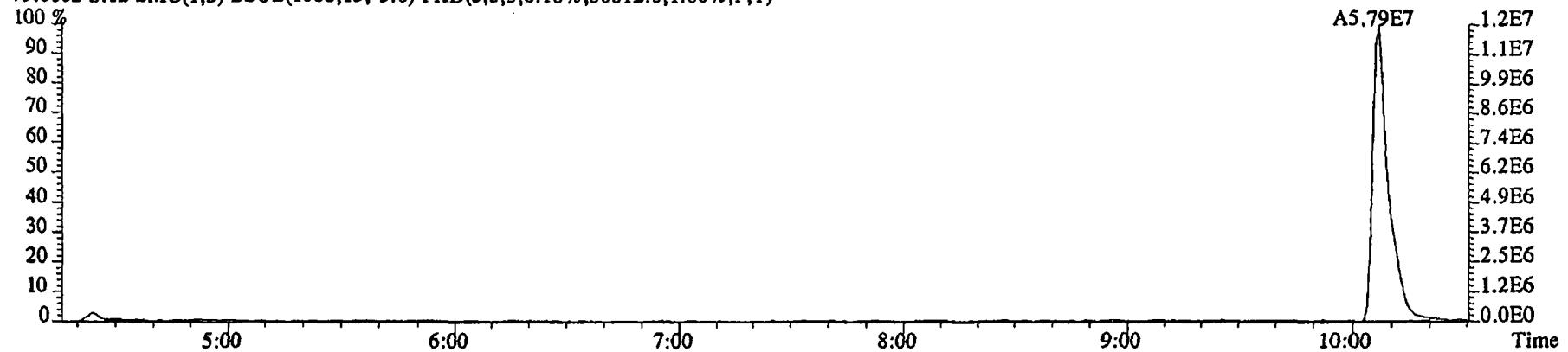
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
88.0524 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9300.0,1.00%,F,T)



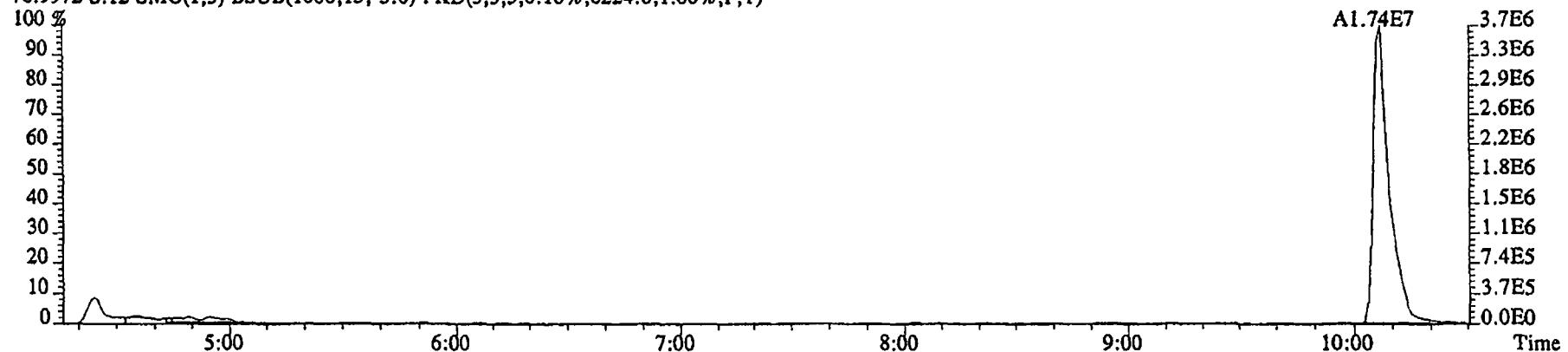
96.1026 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880.0,1.00%,F,T)



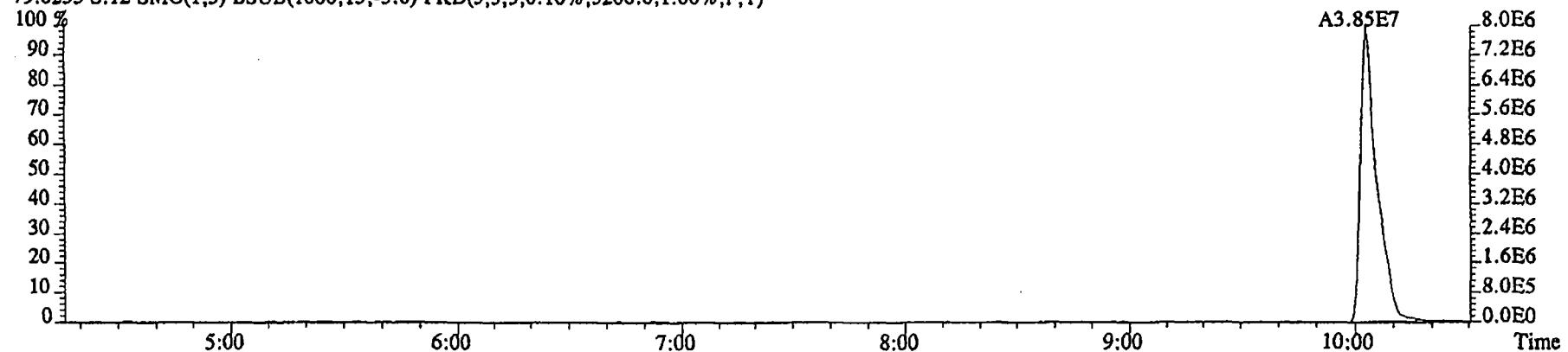
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
75.0002 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,50012.0,1.00%,F,T)



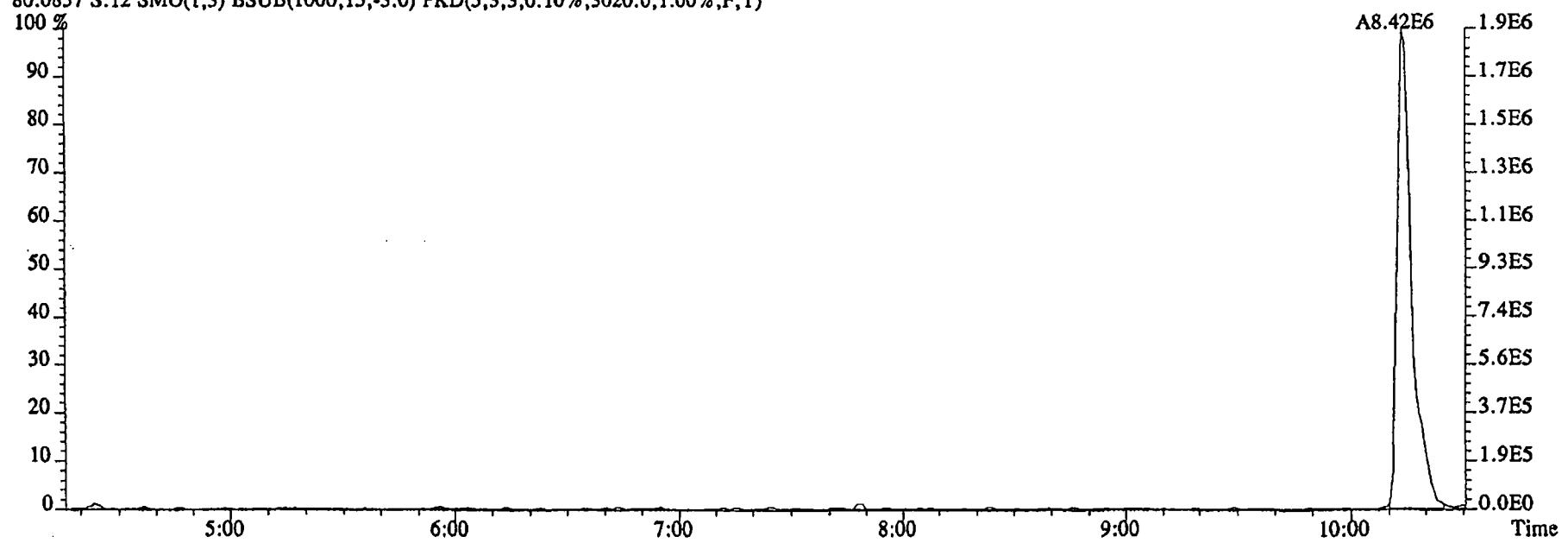
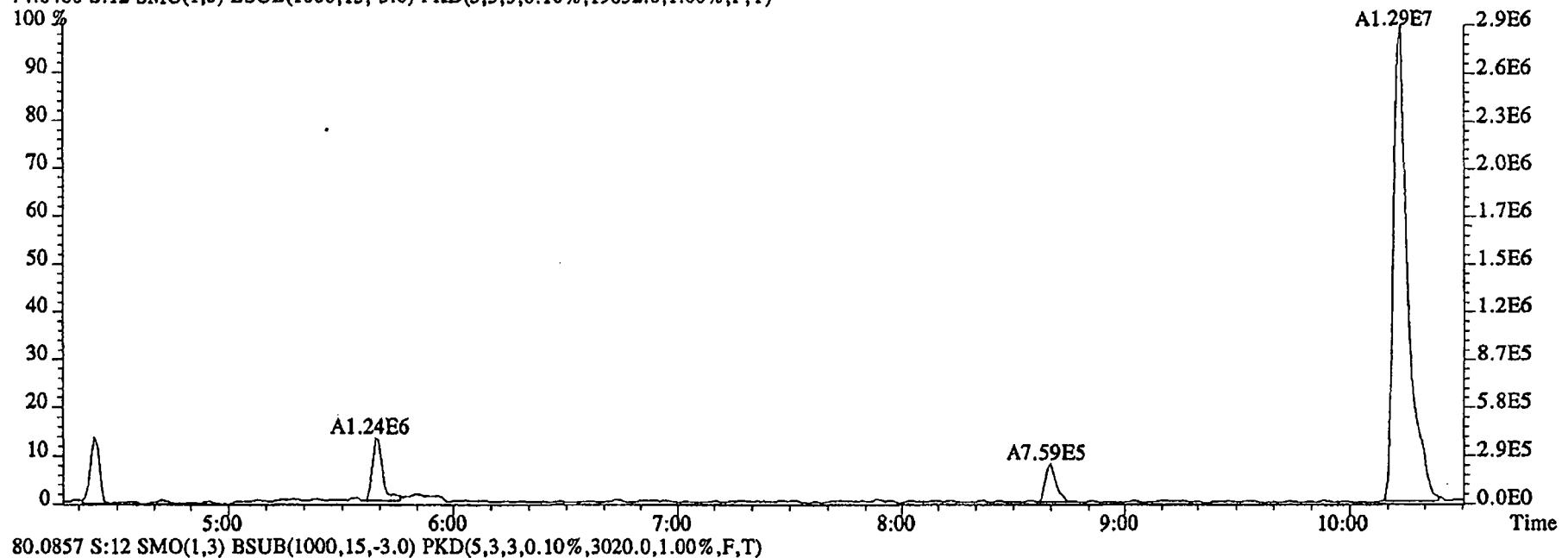
76.9972 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6224.0,1.00%,F,T)



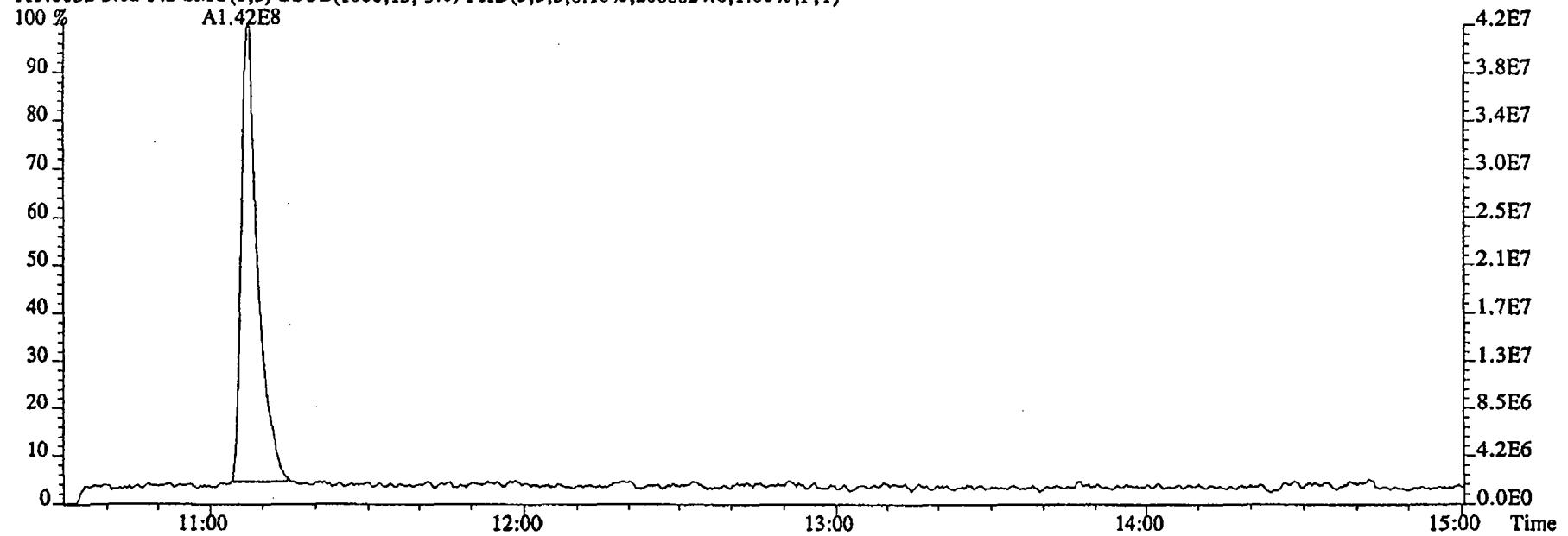
79.0253 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5200.0,1.00%,F,T)



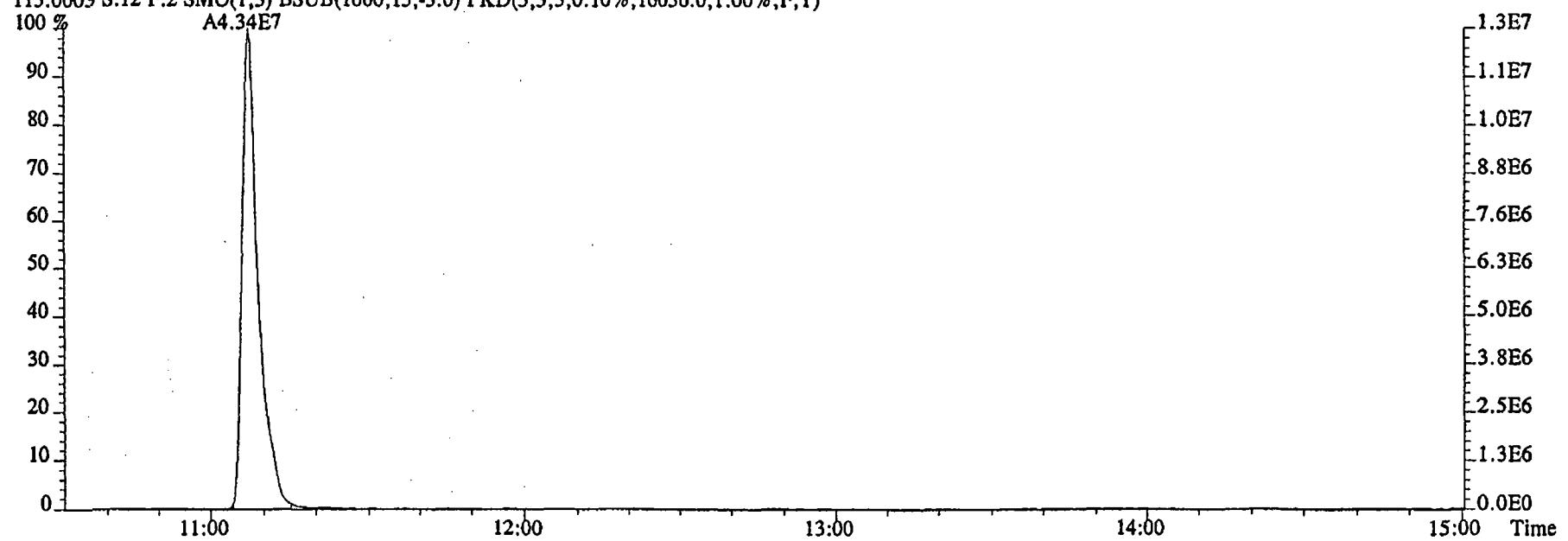
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
74.0480 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19832.0,1.00%,F,T)



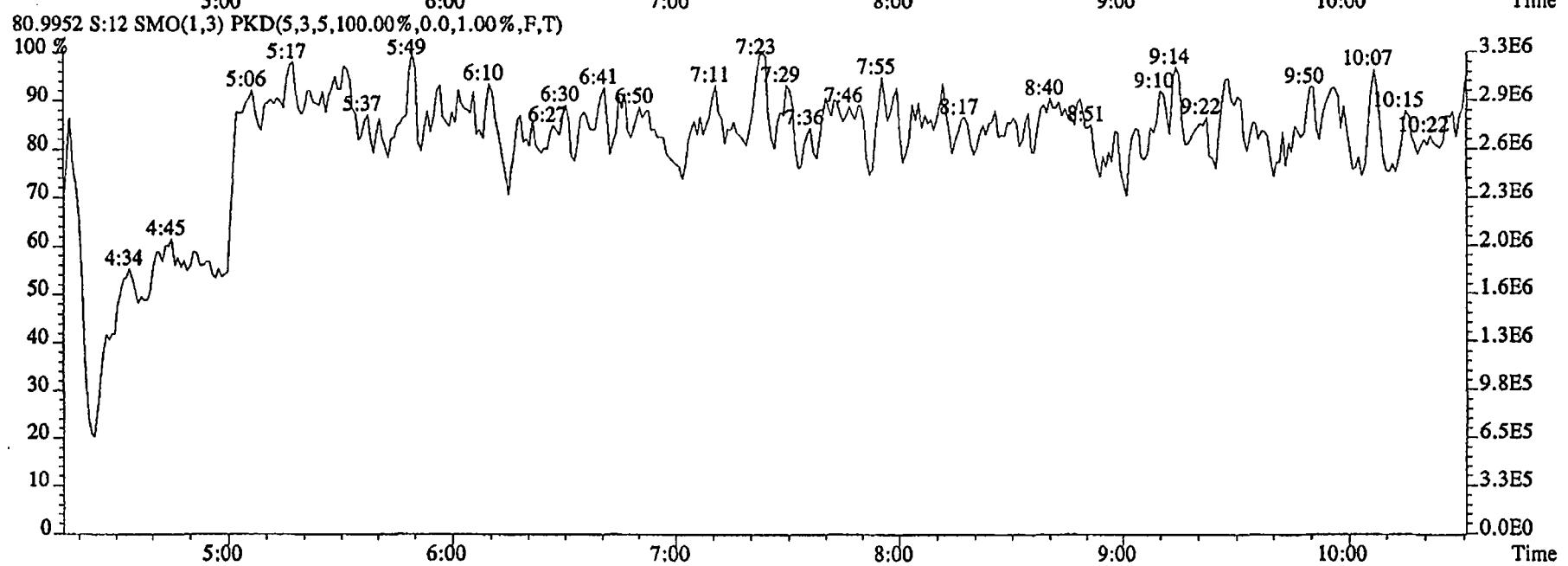
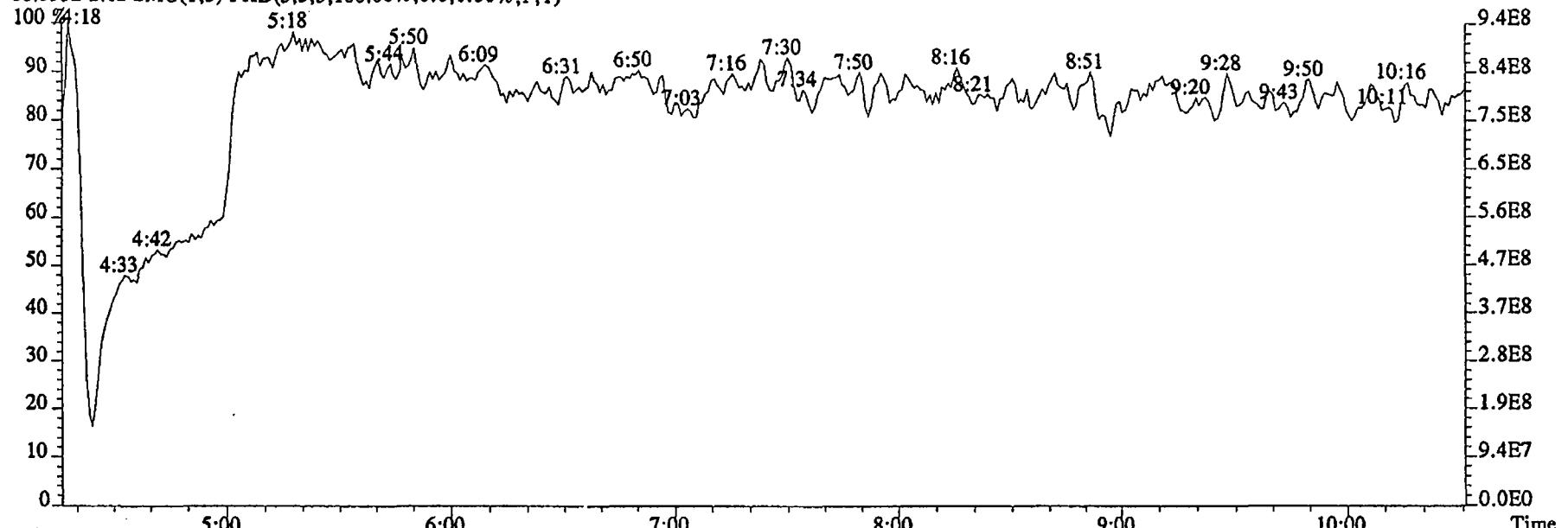
File:08DE045SP #1-626 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
113.0032 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2068624.0,1.00%,F,T)



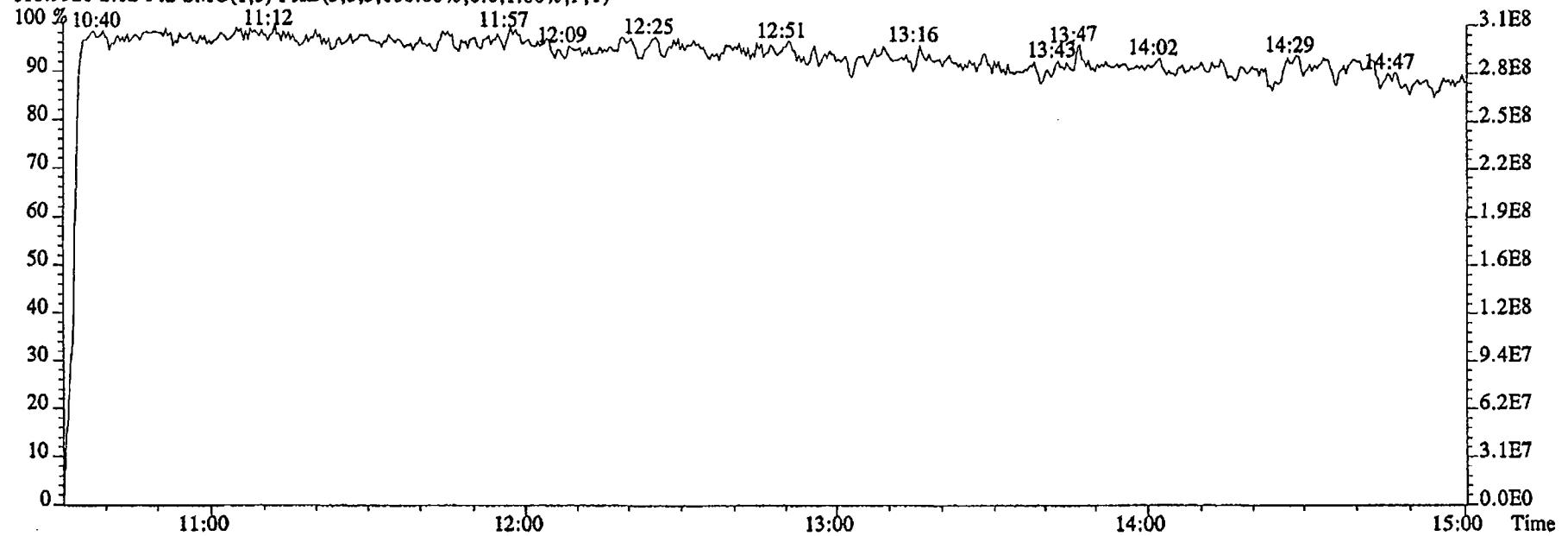
115.0003 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16036.0,1.00%,F,T)



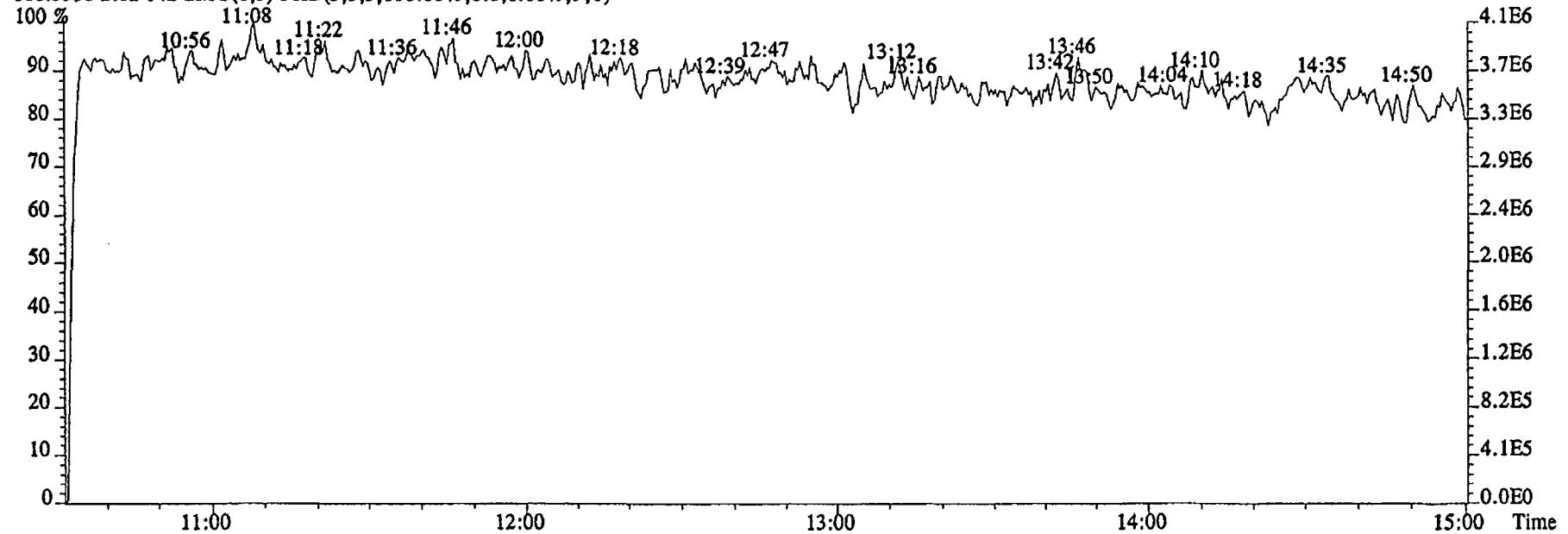
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
 Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
 68.9952 S:12 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-626 Acq: 8-DEC-2004 20:20:27 GC EI+ Voltage SIR 70SE
Sample#12 Text:G0FX0-1-ADL :G4L040125-1DCS Exp:NDMAVOA
118.9920 S:12 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:12 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

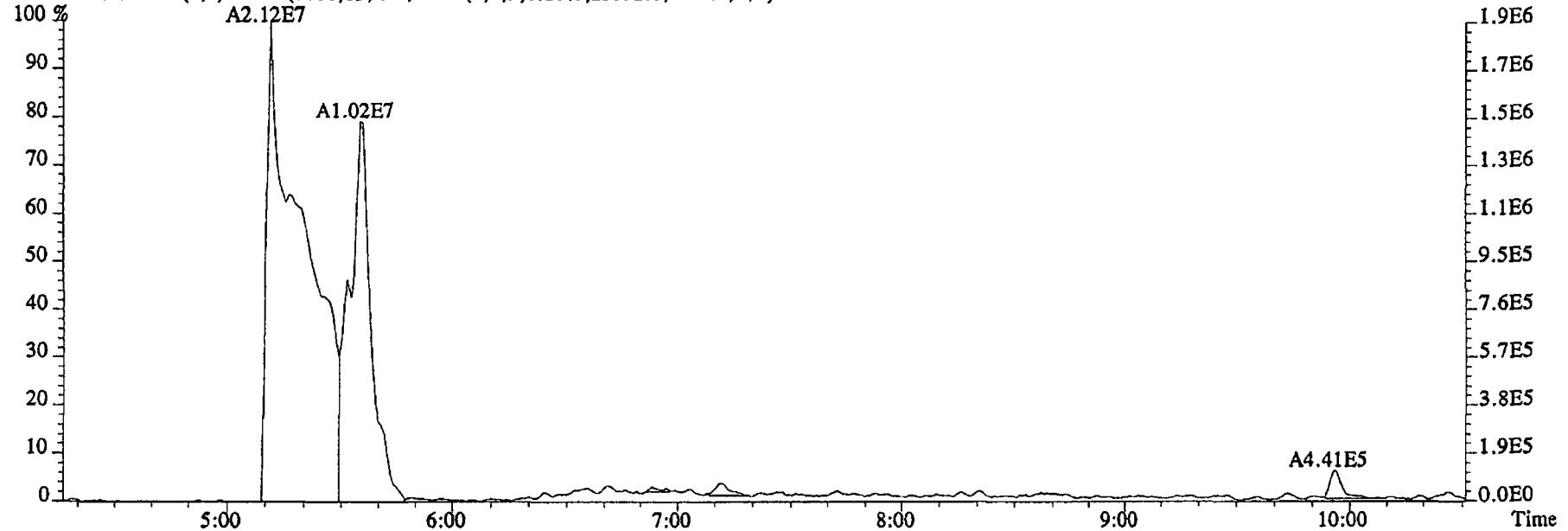


Run text: G0AGN-1-AC Sample text: G0AGN-1-AC :G4L040125-1
 Run #10 Filename: 08DE045SP S: 13 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 20:40:52 Processed: 9-DEC-04 15:10:43
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.996 L

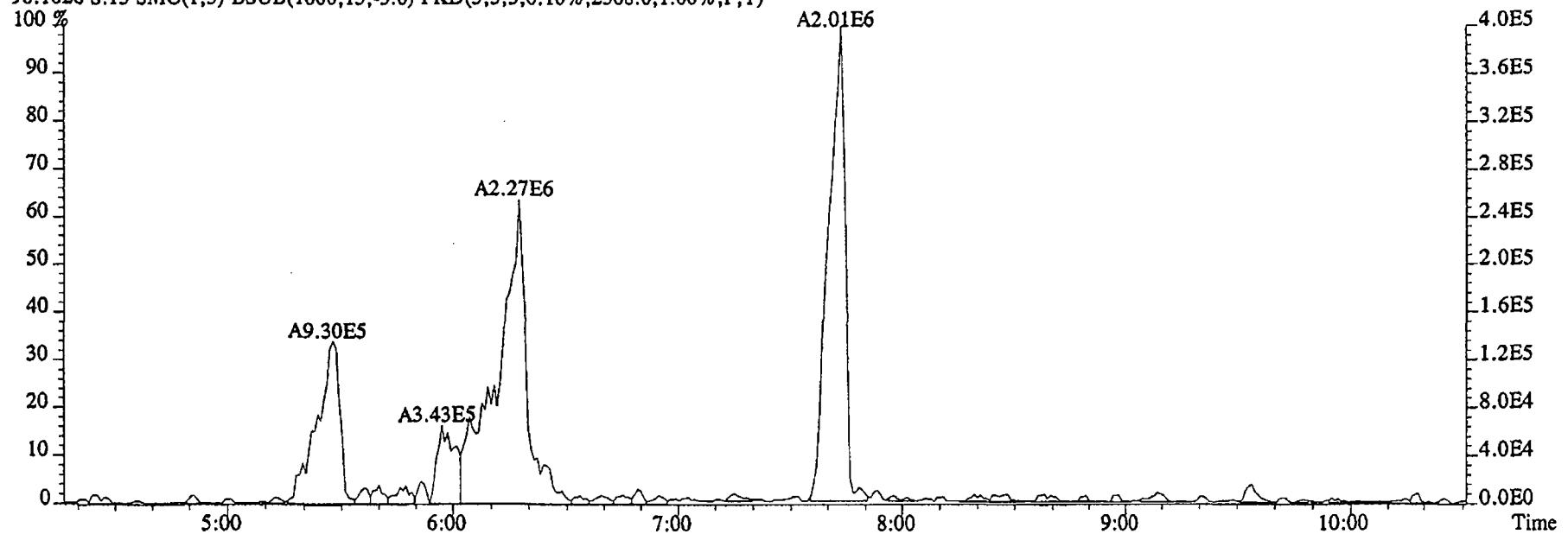
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	51354200		11:10	-	358.94	-	-	n
D8~1,4-Dioxane	12771		5:12	0.92	0.05	0.08	0.0	n
1,4-Dioxane	21164500		5:12	1.13	1478932.44	13227.69	-	n
D5-123-TriChloroPropane	56026100		10:06	2.52	86.78	0.10	86.4	n
1,2,3-TriChloroPropane	128938		10:10	0.50	0.46	150	0.34	-
1,2,3-TriChloroPropane	491501		10:10	-	0.86	-	-	n
D6-NDMA	7815560		10:17	1.40	21.80	0.10	21.7	x
NDMA	626948		10:16	1.76	4.58	✓	2.05-0.44	-
2-Chloropyridine	163289000		11:10	-	345.45	-	JW 12/21/04	n

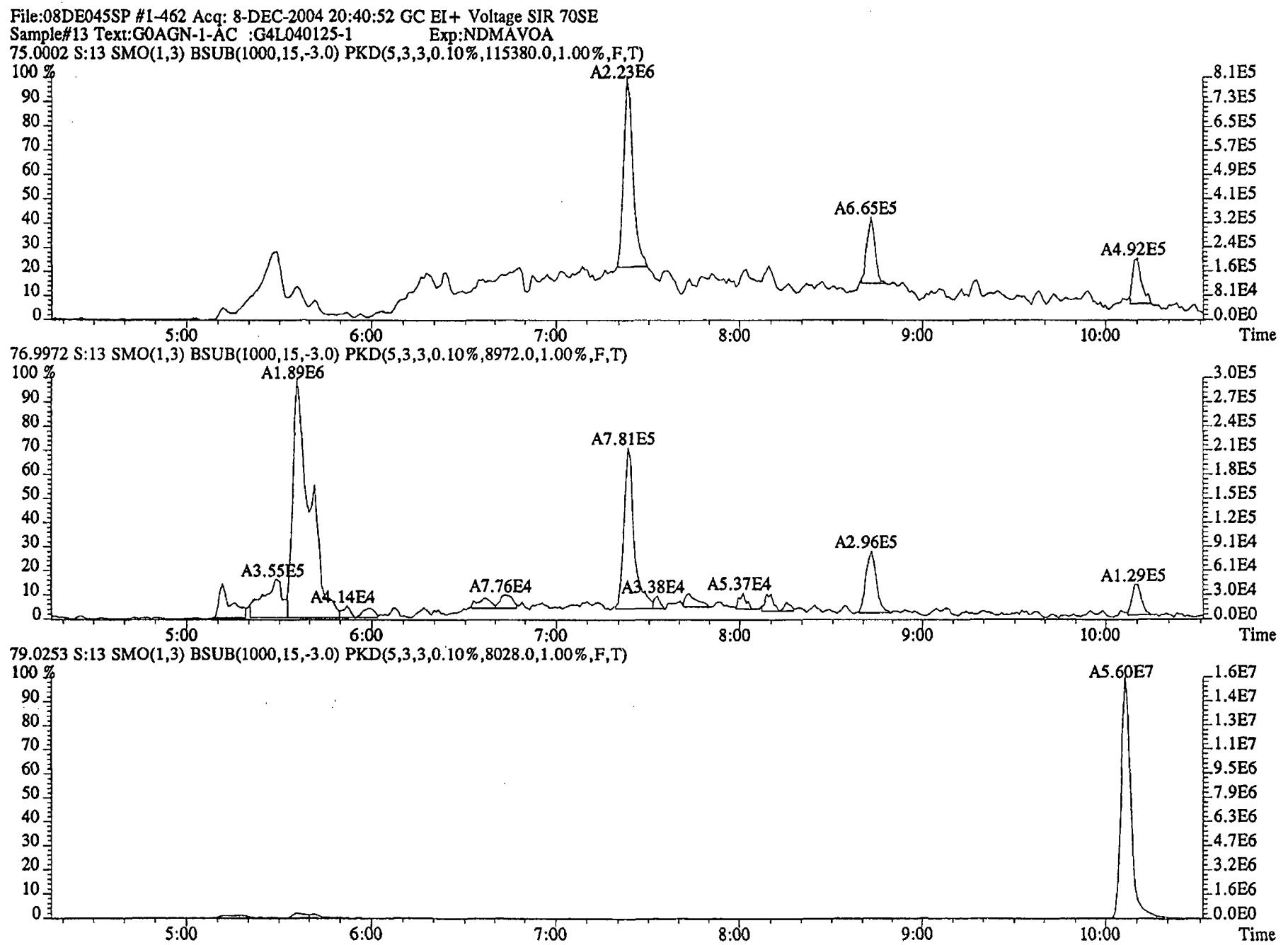
12-14-04
d

File:08DE045SP #1-462 Acq: 8-DEC-2004 20:40:52 GC EI + Voltage SIR 70SE
Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
88.0524 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23392.0,1.00%,F,T)

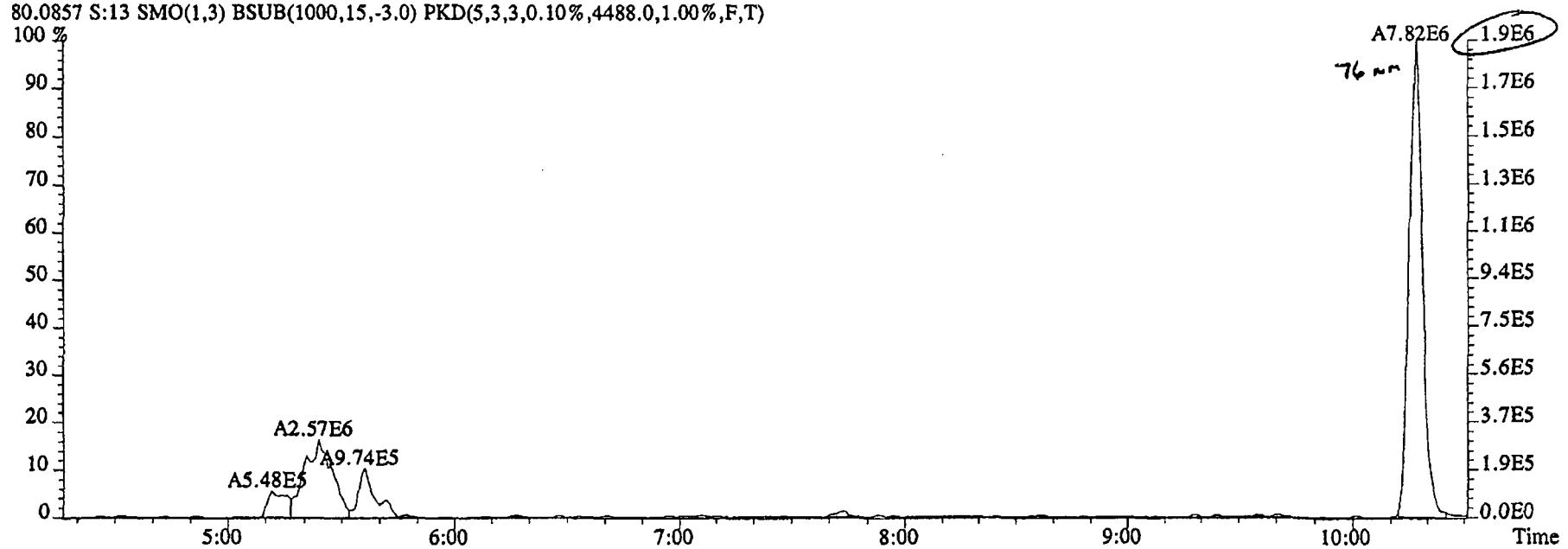
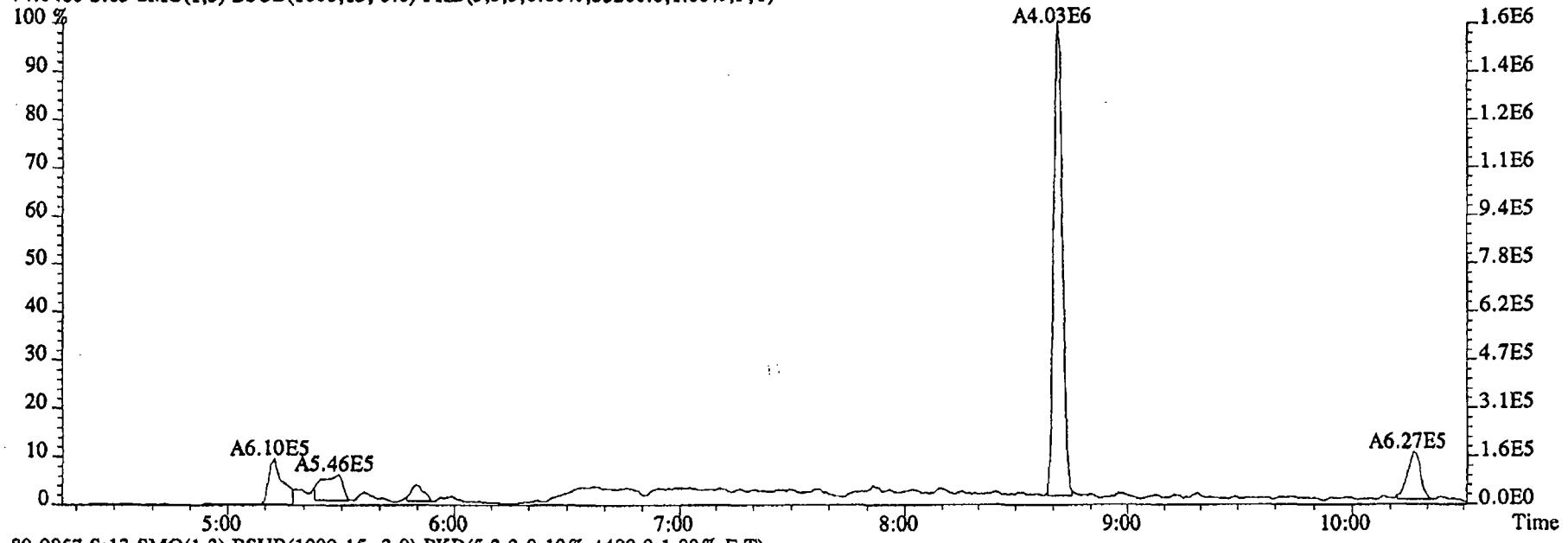


96.1026 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2368.0,1.00%,F,T)

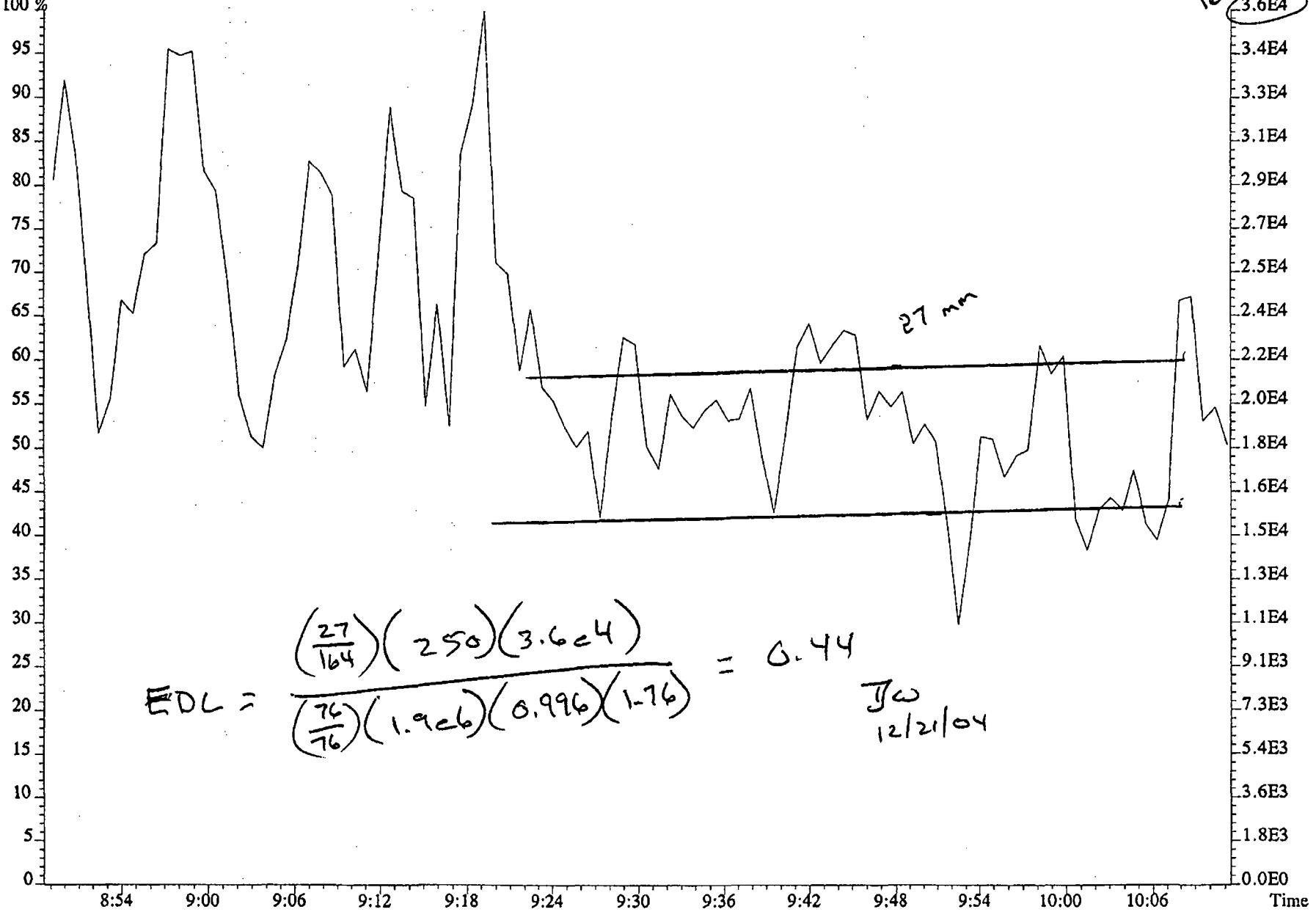




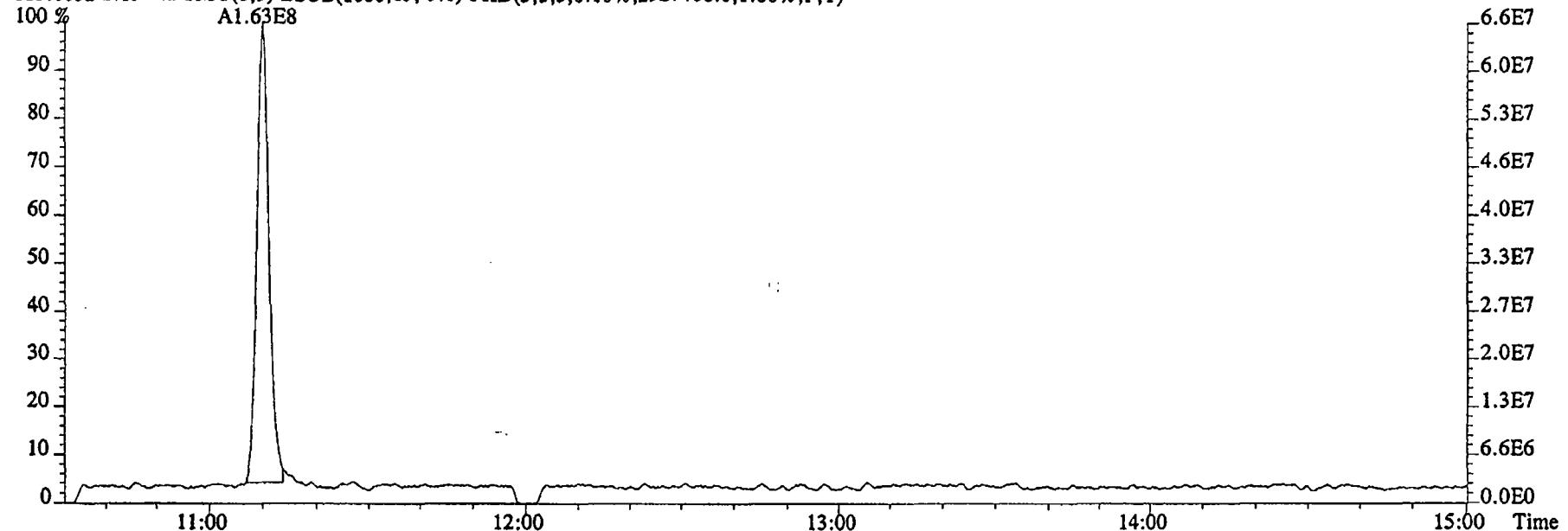
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:40:52 GC El+ Voltage SIR 70SE
Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
74.0480 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33260.0,1.00%,F,T)



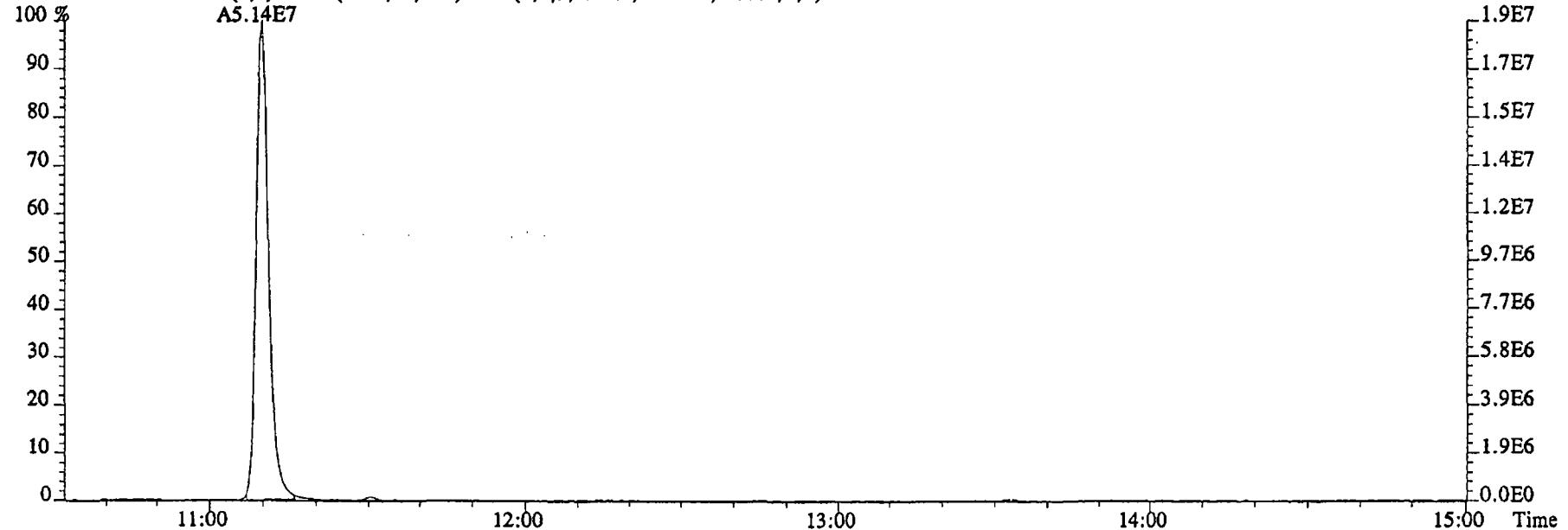
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:40:52 GC EI+ Voltage SIR 70SE
 Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
 74.0480 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,33260.0,1.00%,F,T)



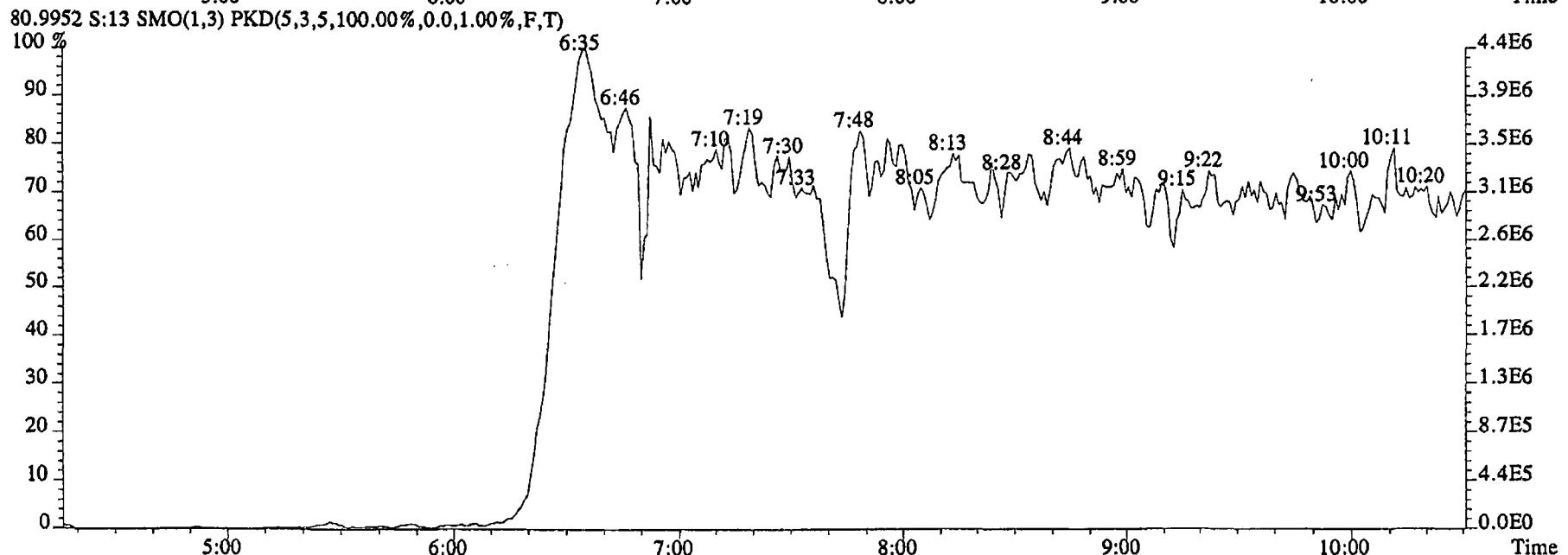
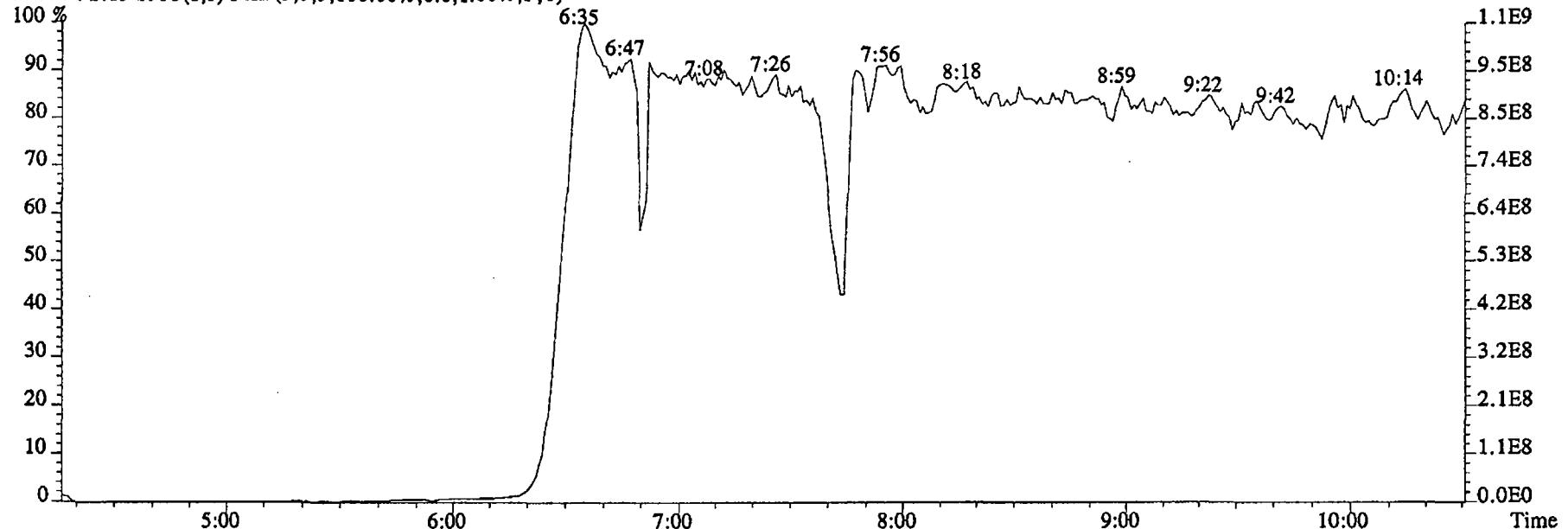
File:08DE045SP #1-625 Acq: 8-DEC-2004 20:40:52 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
113.0032 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2927408.0,1.00%,F,T)



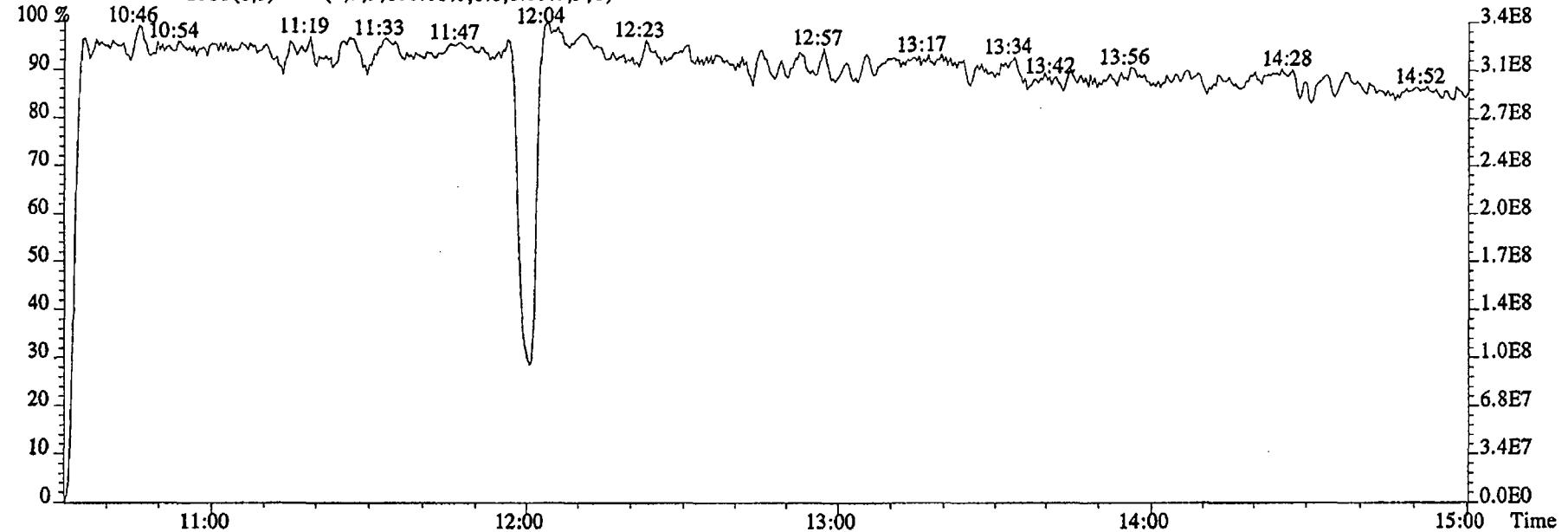
115.0003 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17036.0,1.00%,F,T)



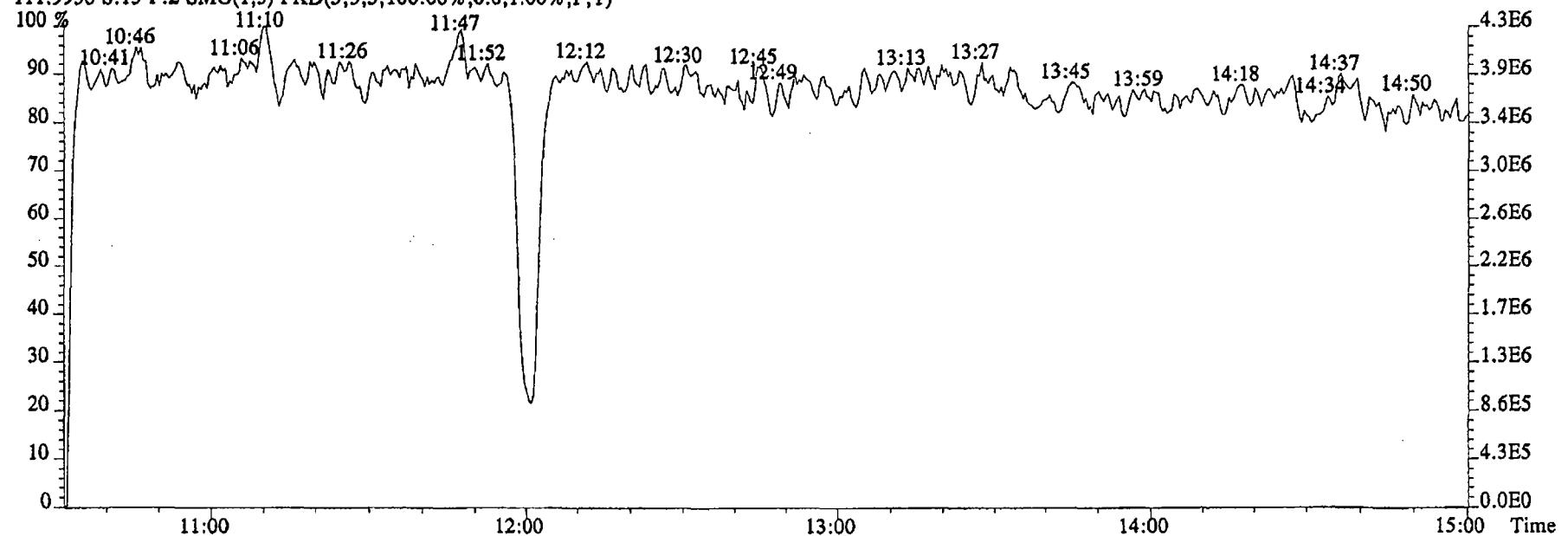
File:08DE045SP #1-462 Acq: 8-DEC-2004 20:40:52 GC EI+ Voltage SIR 70SE
Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
68.9952 S:13 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-625 Acq: 8-DEC-2004 20:40:52 GC El+ Voltage SIR 70SE
Sample#13 Text:G0AGN-1-AC :G4L040125-1 Exp:NDMAVOA
118.9920 S:13 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:13 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

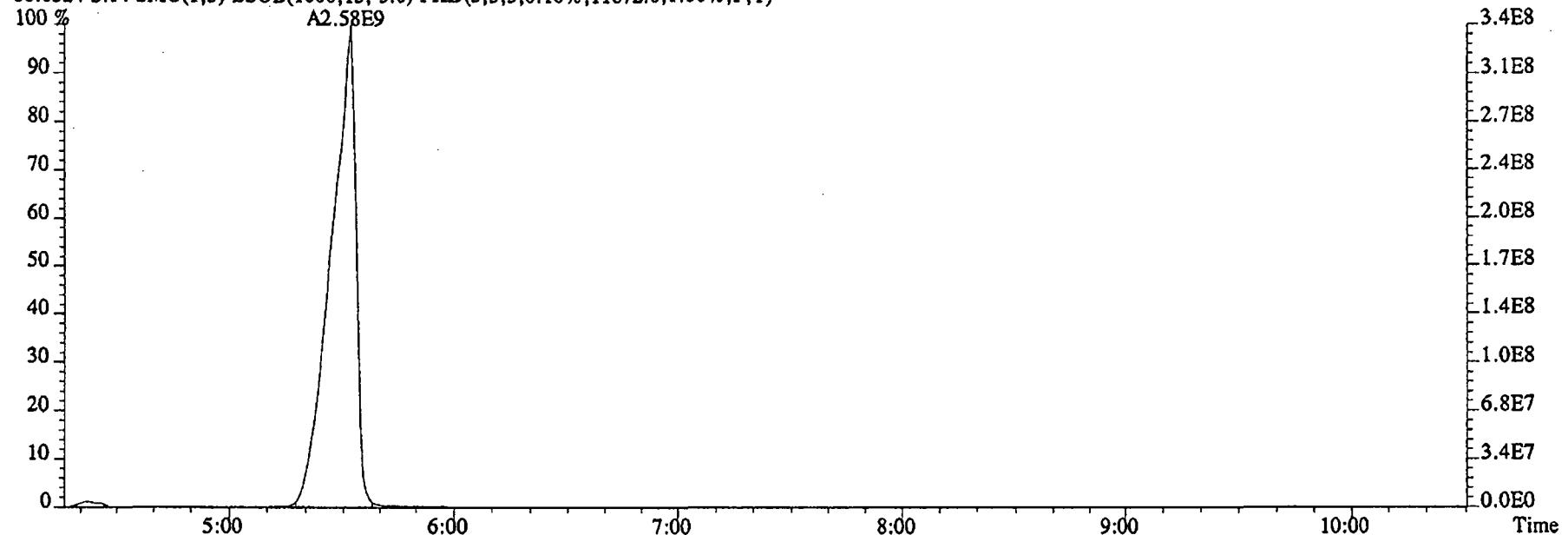


Run text: G0AGR-1-AC Sample text: G0AGR-1-AC :G4L040125-2
 Run #11 Filename: 08DE045SP S: 14 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 21:01:18 Processed: 9-DEC-04 15:10:43
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.979 L

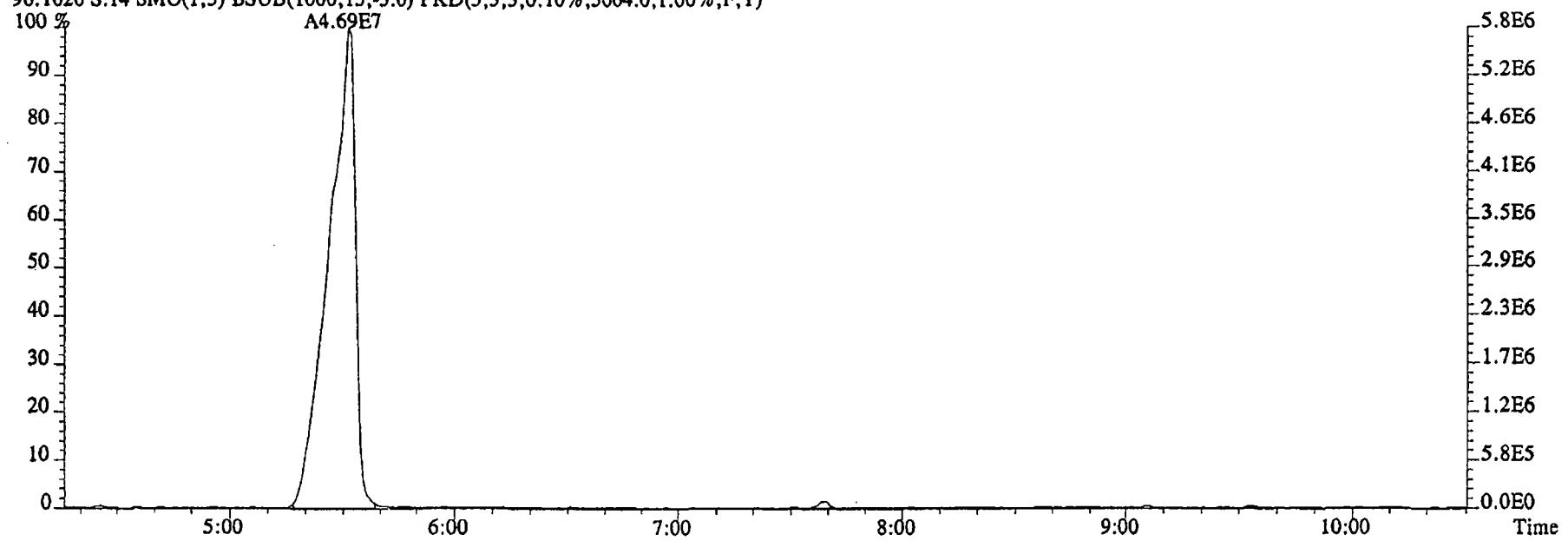
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	89066400		11:11	-	633.34	-	-	n
D8-1,4-Dioxane	*		Not Fnd	0.92	*	0.11	*	n
1,4-Dioxane	*		Not Fnd	1.13	*	*	-	n
D5-123-TriChloroPropane	73400300		10:07	2.52	66.69	0.05	65.3	n
1,2,3-TriChloroPropane	157079		10:11	0.50	0.43	2.20	0.27	-n
1,2,3-TriChloroPropane	*		Not Fnd	-	*	-	-	n
D6-NDMA	11206100		10:18	1.40	18.34	0.06	18.0	n
NDMA	393247		10:18	1.76	2.64 2.04	42.0 3.14	0.52	-n
2-Chloropyridine	290802000		11:11	-	625.90	12/21/04	-	-n

12/21/04
JW

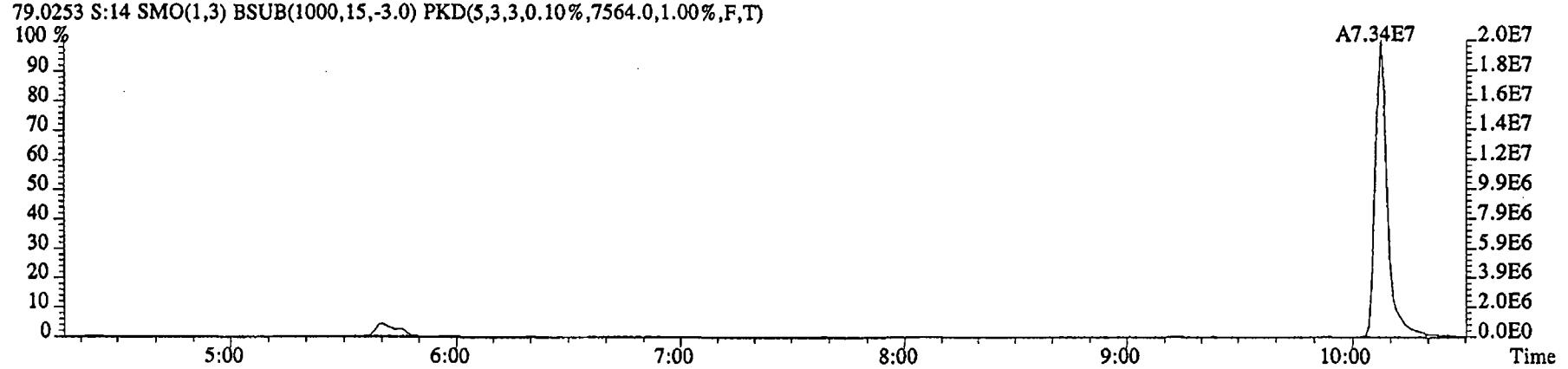
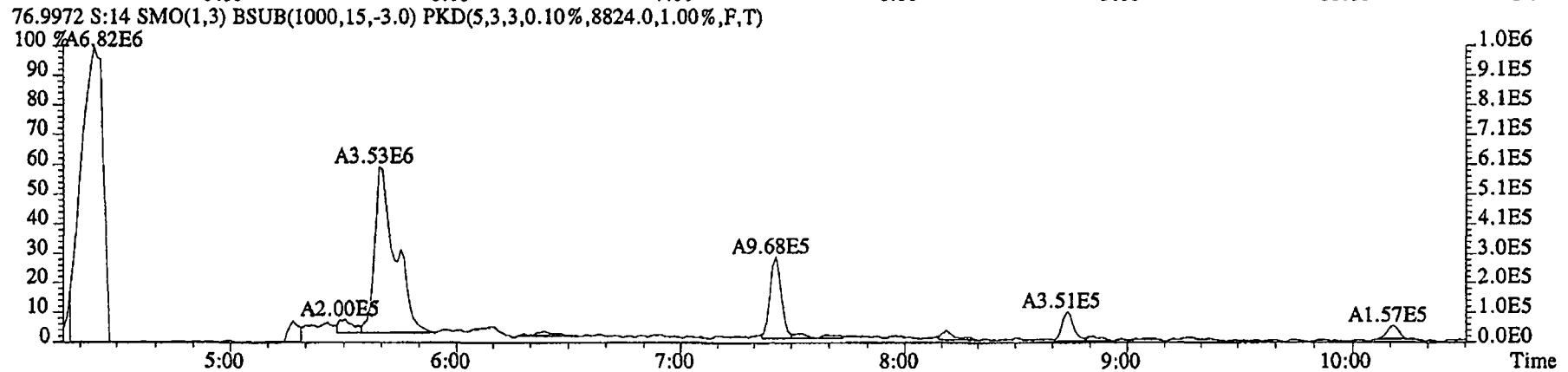
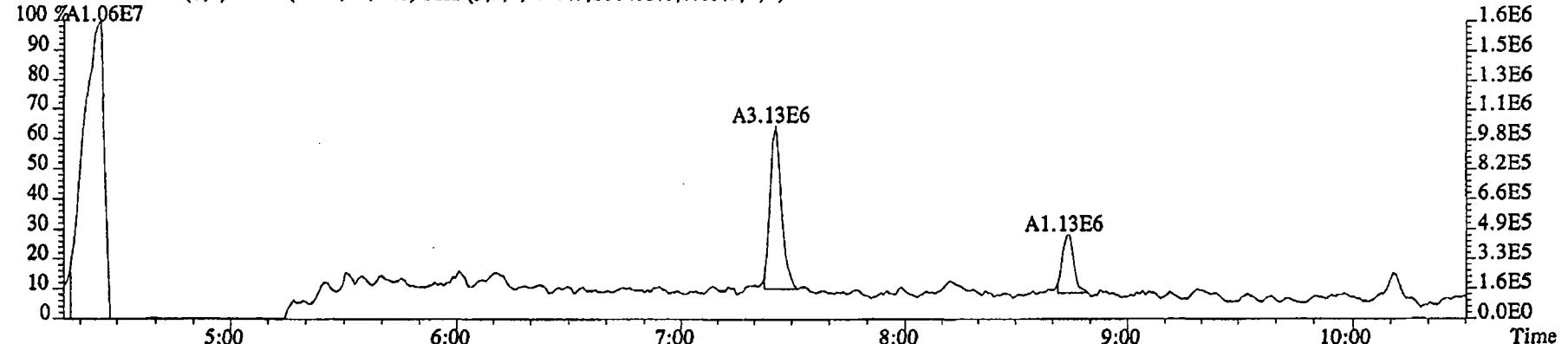
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
88.0524 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11872.0,1.00%,F,T)



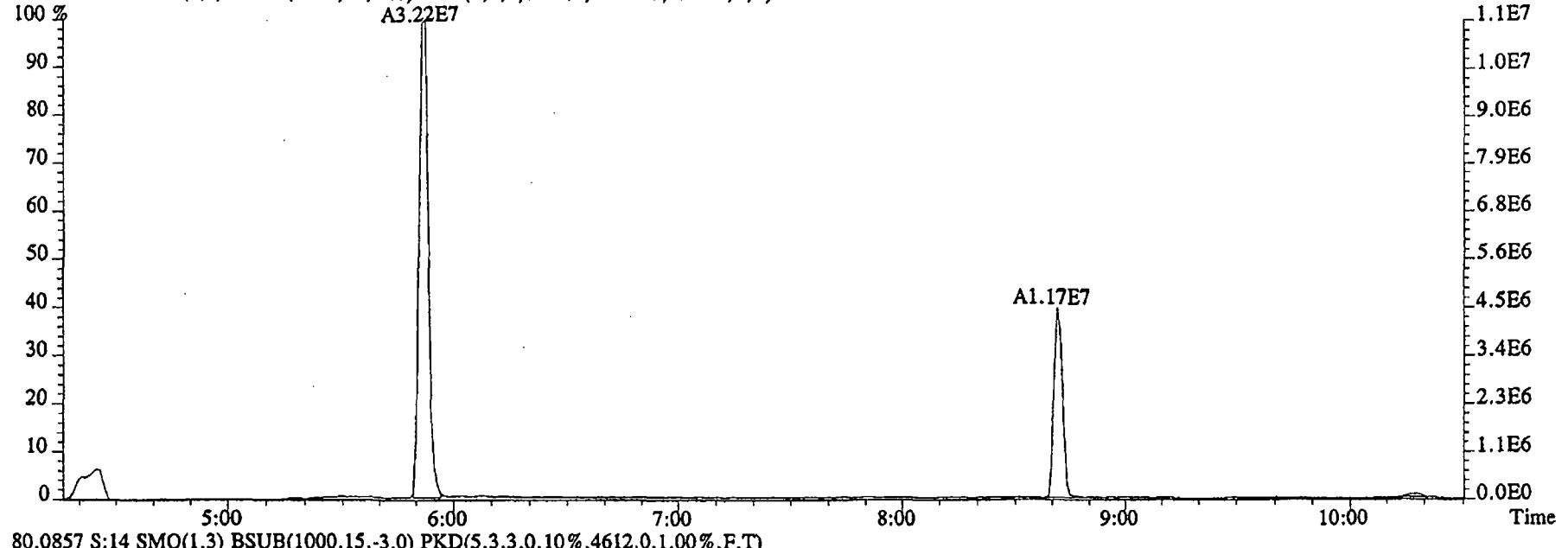
96.1026 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5664.0,1.00%,F,T)



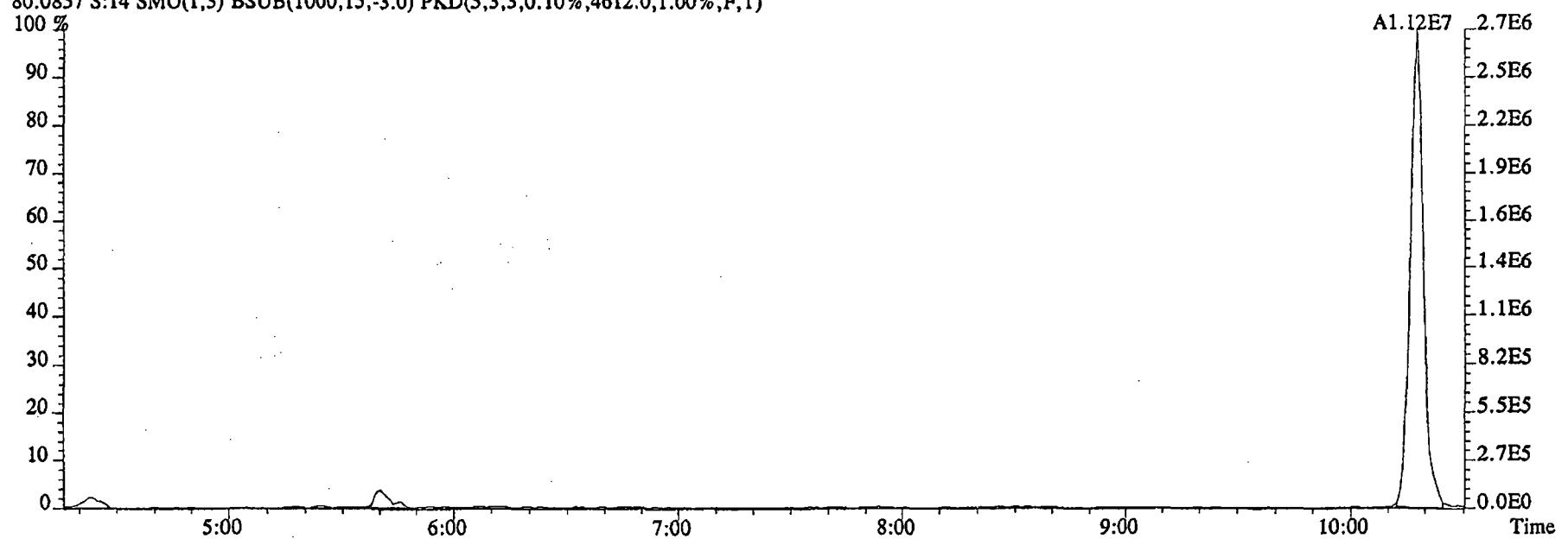
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
 Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
 75.0002 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,188432.0,1.00%,F,T)



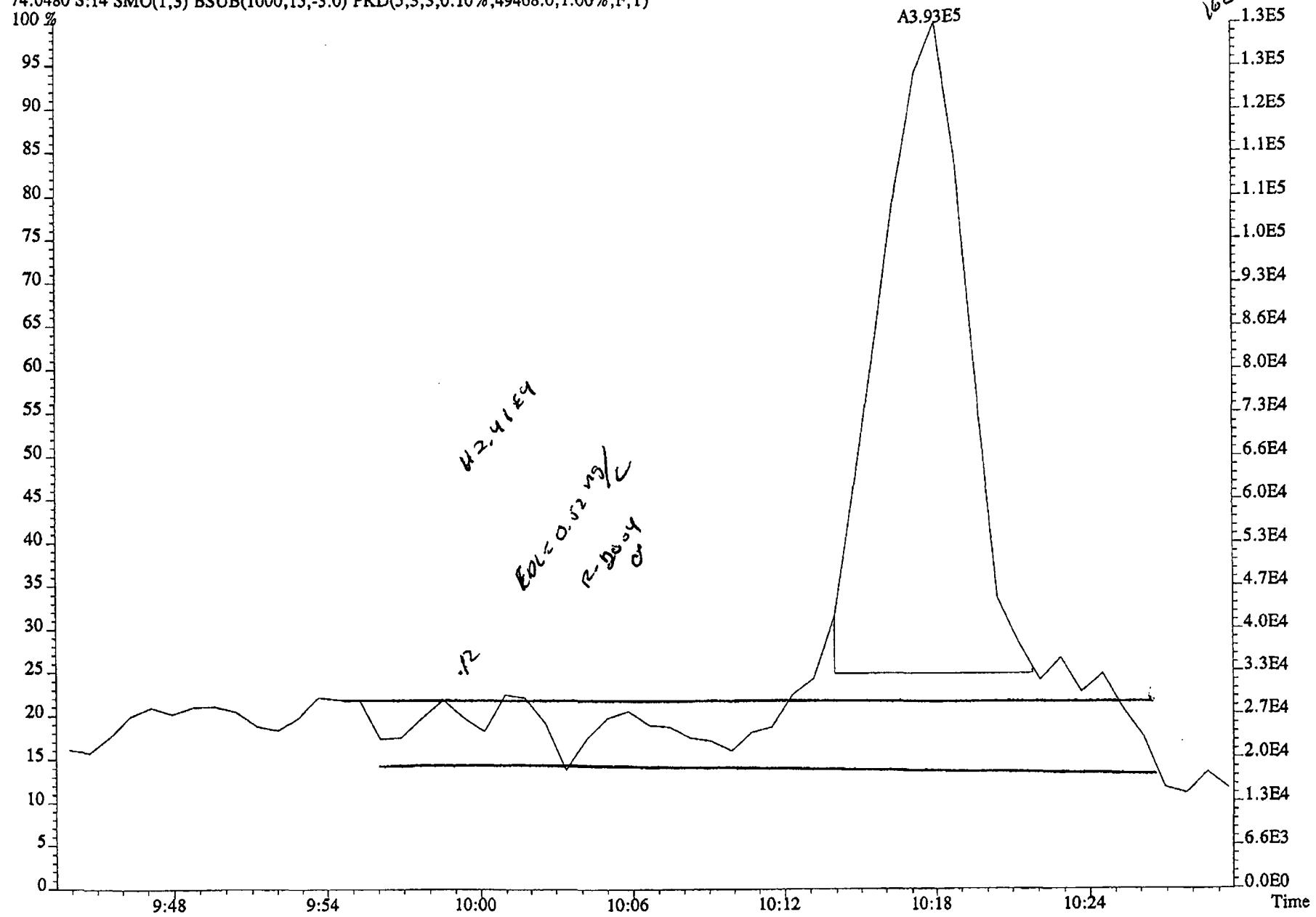
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
74.0480 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,49468.0,1.00%,F,T)



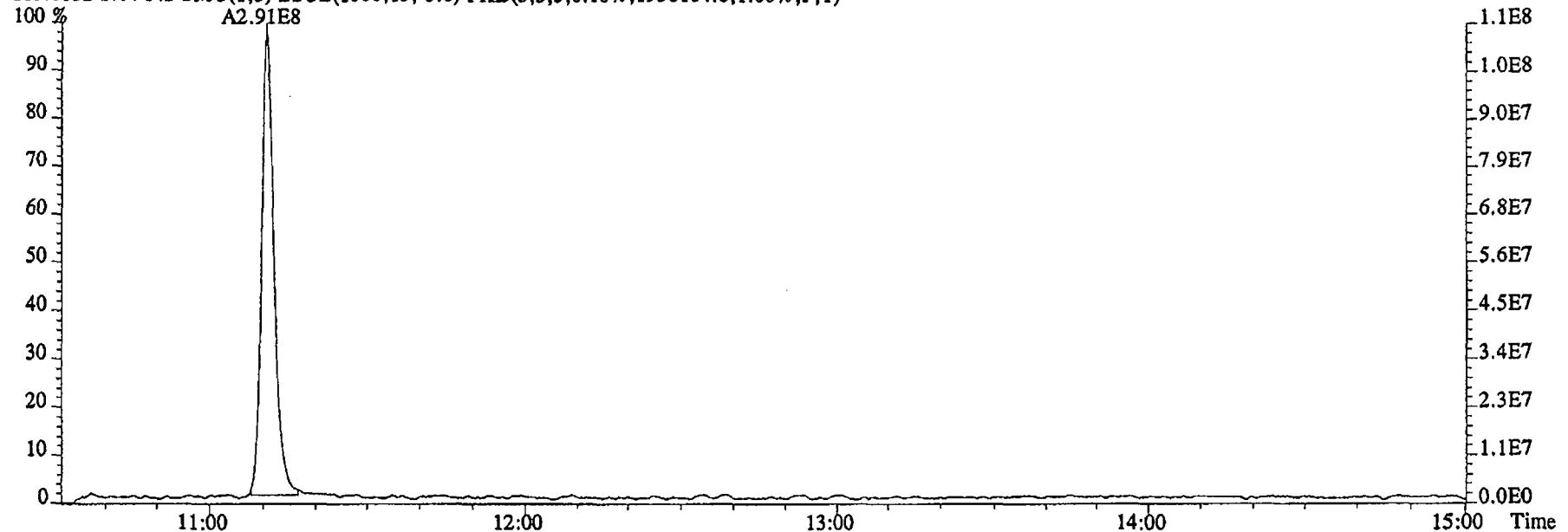
80.0857 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4612.0,1.00%,F,T)



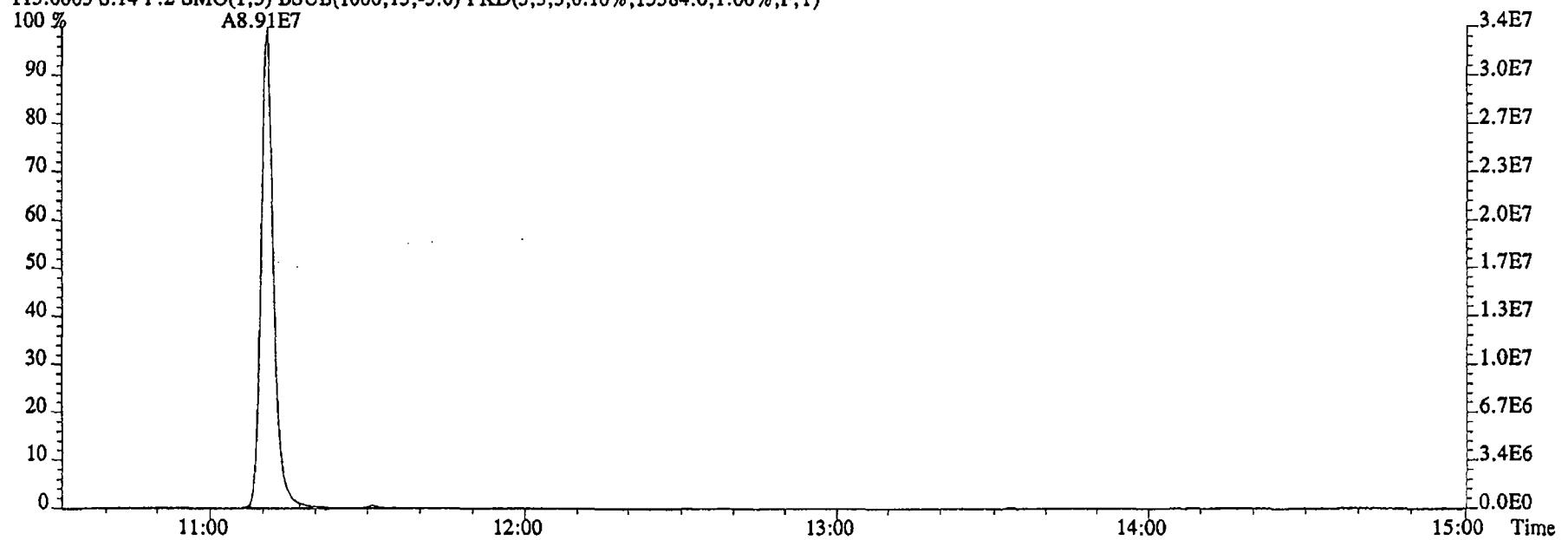
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
74.0480 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,49468.0,1.00%,F,T)



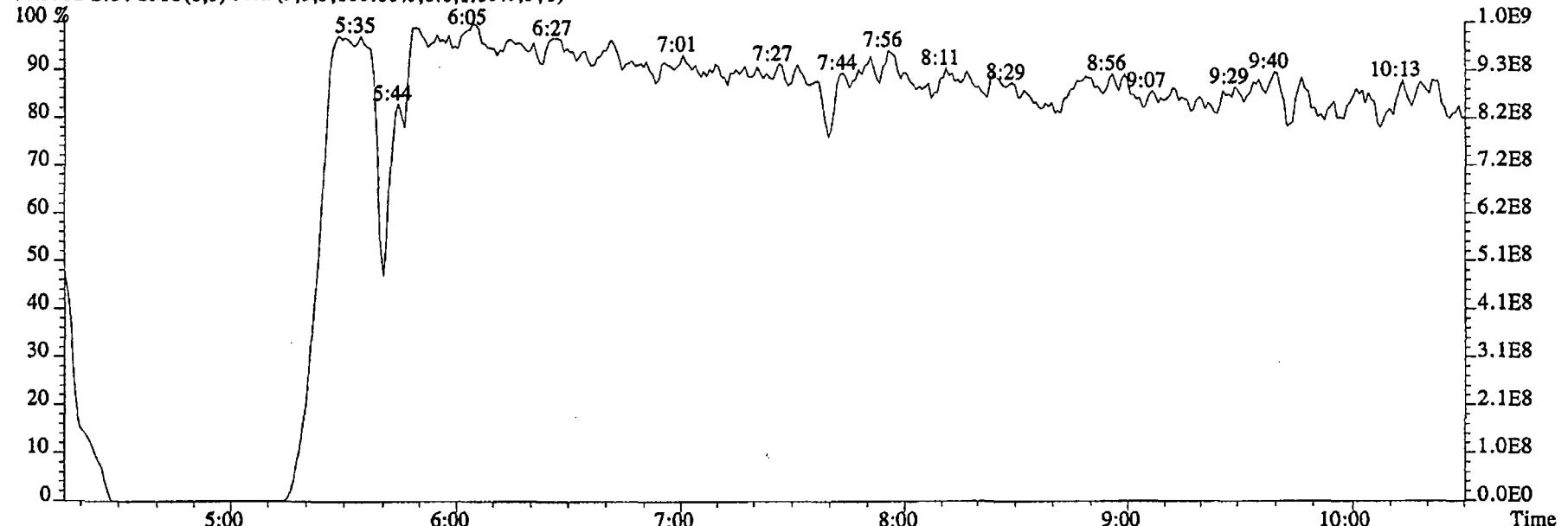
File:08DE045SP #1-626 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
113.0032 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1950104.0,1.00%,F,T)



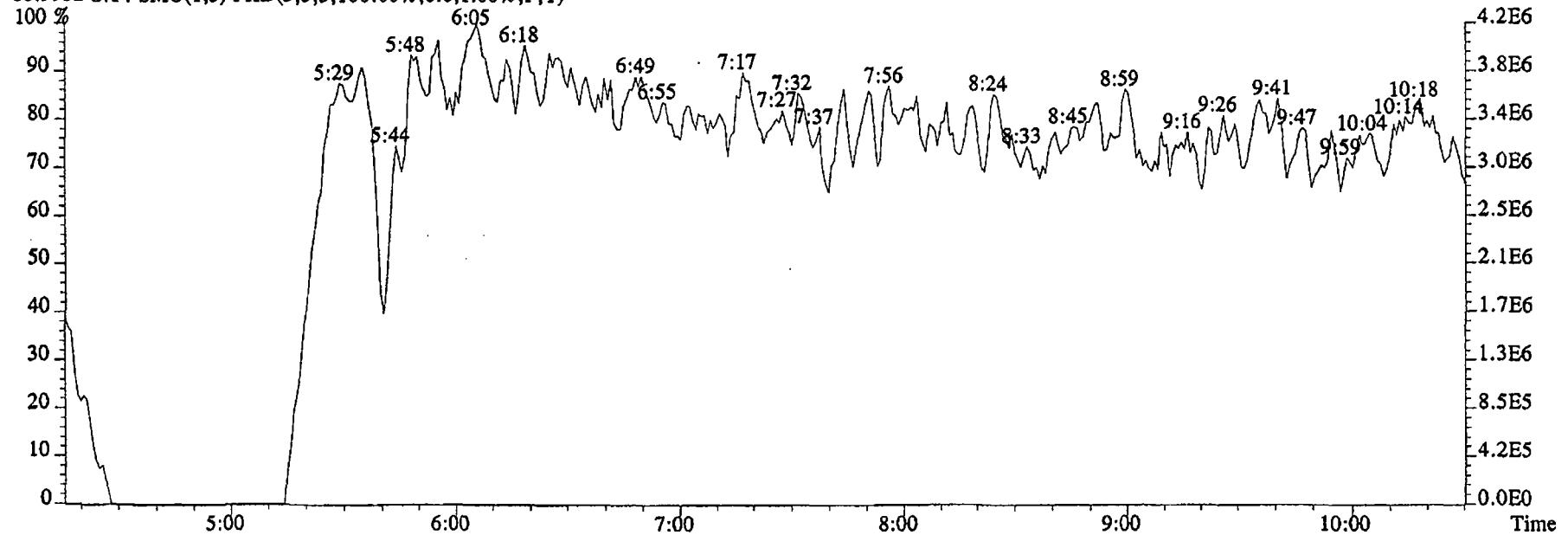
115.0003 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15384.0,1.00%,F,T)



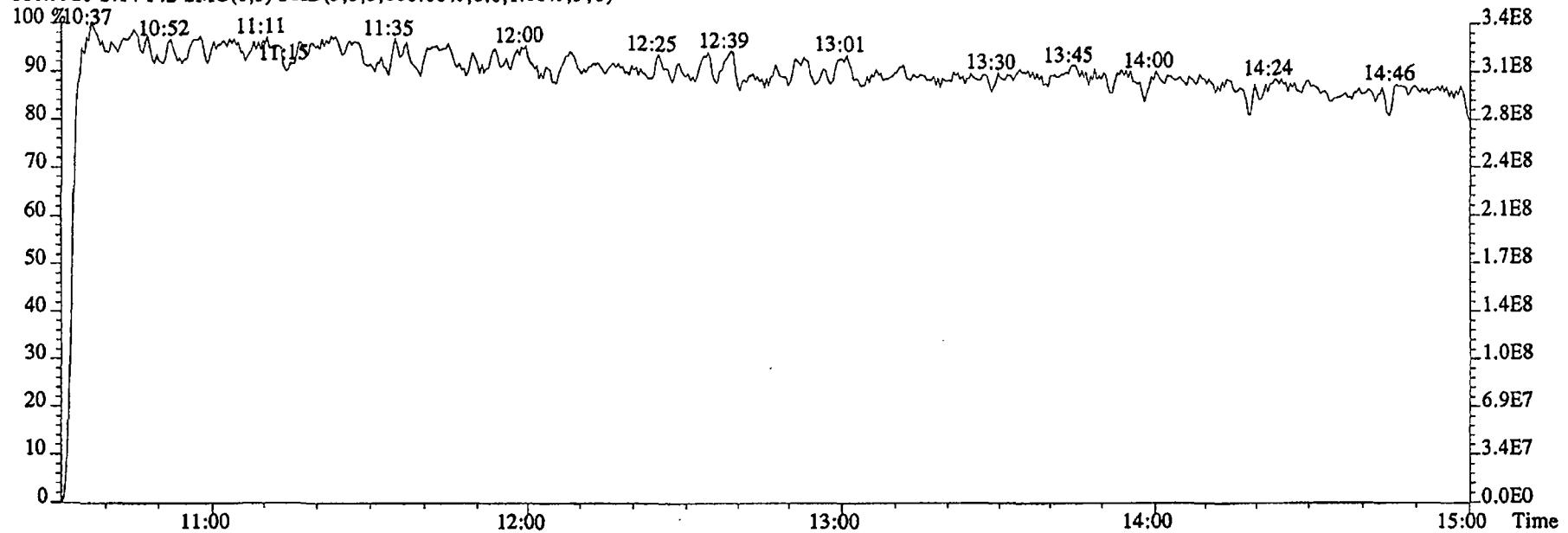
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:G0AGR-1-AC :G4L040125-2 Exp:NDMAVOA
68.9952 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



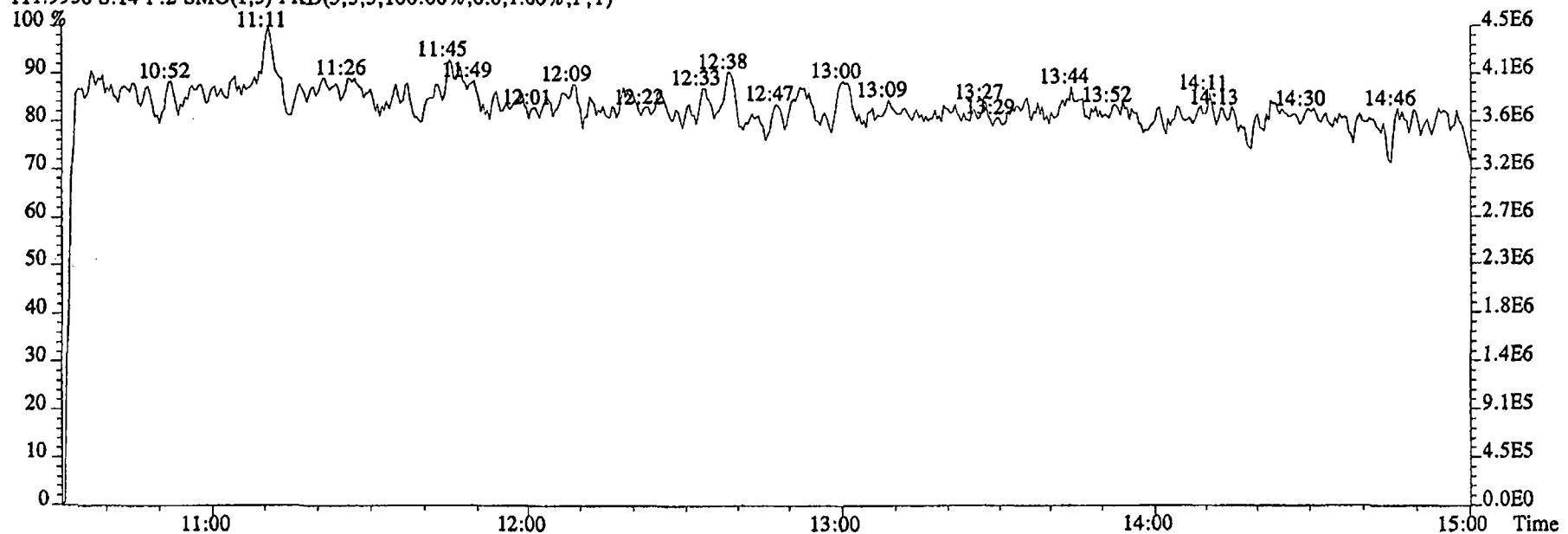
80.9952 S:14 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-626 Acq: 8-DEC-2004 21:01:18 GC EI+ Voltage SIR 70SE
Sample#14 Text:GOAGR-1-AC :G4L040125-2 Exp:NDMAVOA
118.9920 S:14 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:14 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

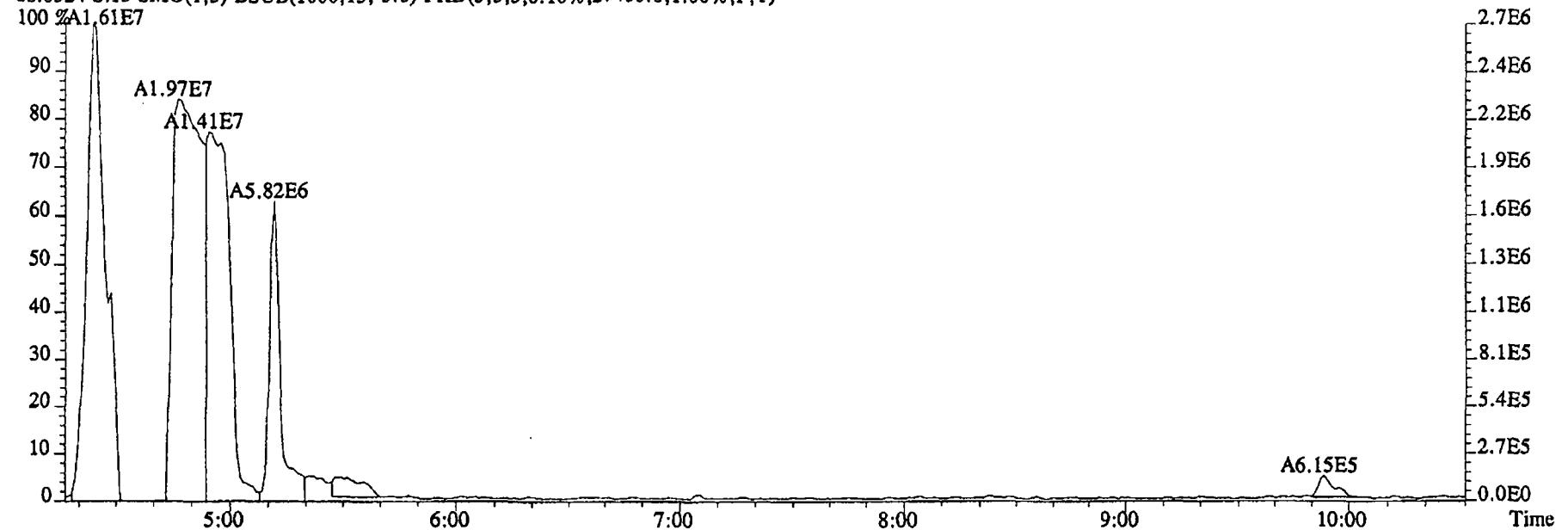


Run text: G0AGV-1-AC Sample text: G0AGV-1-AC :G4L040125-3
 Run #12 Filename: 08DE045SP S: 15 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 21:21:43 Processed: 9-DEC-04 15:10:44
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.973 L

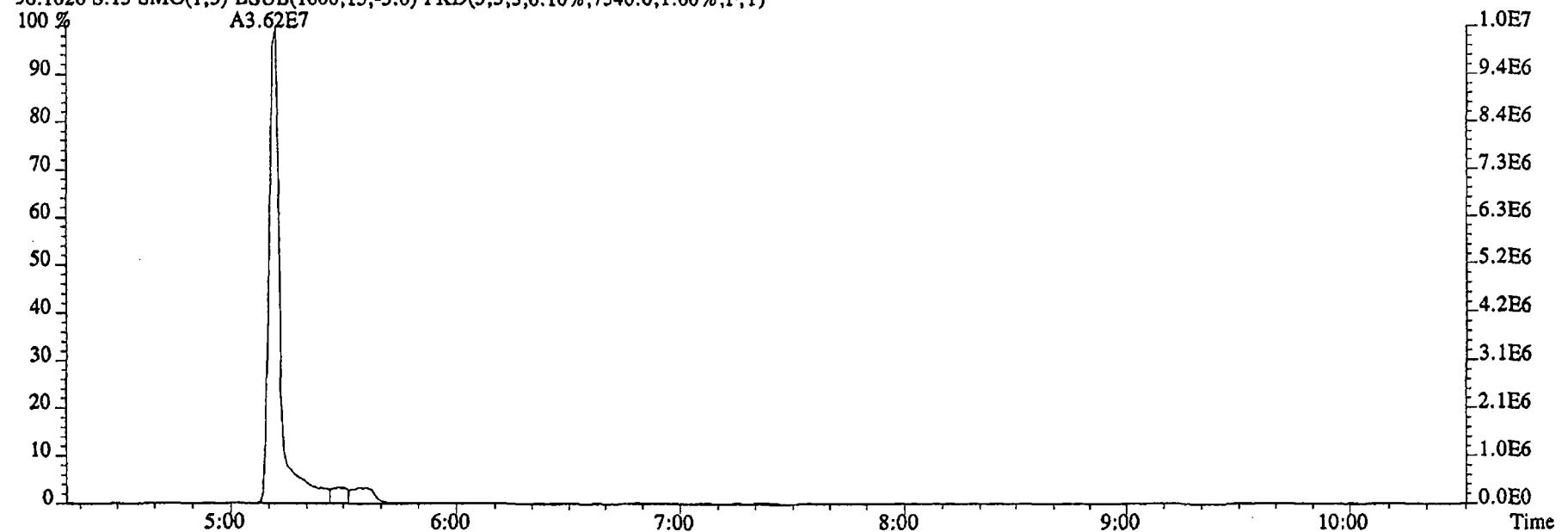
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
2-Chloropyridine	43432800		11:08	-	310.75	-	-	n
D8-1,4-Dioxane	36210400		5:12	0.92	185.36	0.38	18.0	n
1,4-Dioxane	5821480		5:12	1.13	146.87	7.18	-	n
D5-123-TriChloroPropane	35522800		10:04	2.52	66.60	0.28	64.8	n
1,2,3-TriChloroPropane	*		NotFnd	0.50	*	<5.0	1.43	-
1,2,3-TriChloroPropane	*		NotFnd	-	*	-	-	n
D6-NDMA	6274640		10:15	1.40	21.19	0.23	20.6	Y
NDMA	*		NotFnd	1.76	*	<2.0	6.68 0.78	-
2-Chloropyridine	144058000		11:08	-	311.97	-	-	n

12-16-04
w

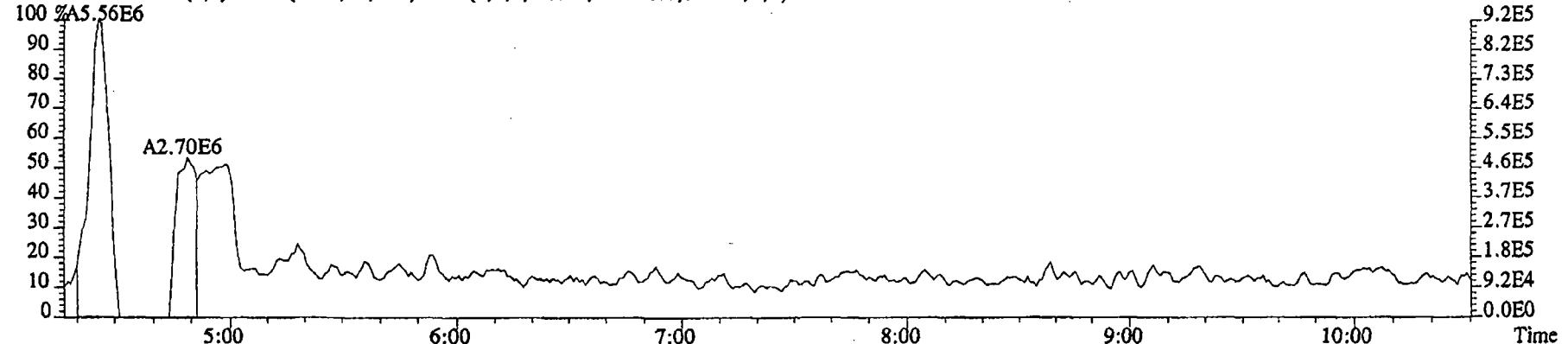
File:08DE045SP #1-461 Acq: 8-DEC-2004 21:21:43 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
88.0524 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27400.0,1.00%,F,T)
100 % A1.61E7



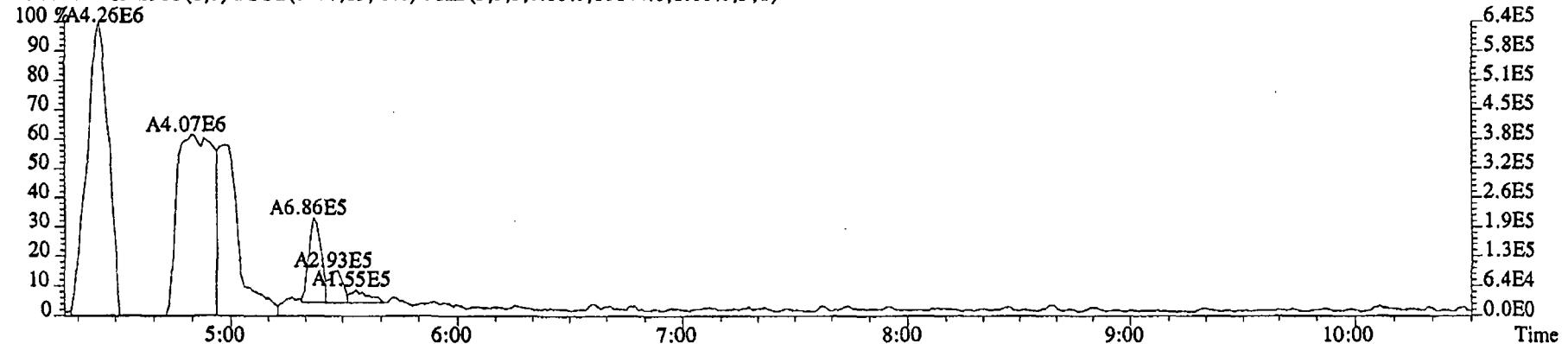
96.1026 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7540.0,1.00%,F,T)



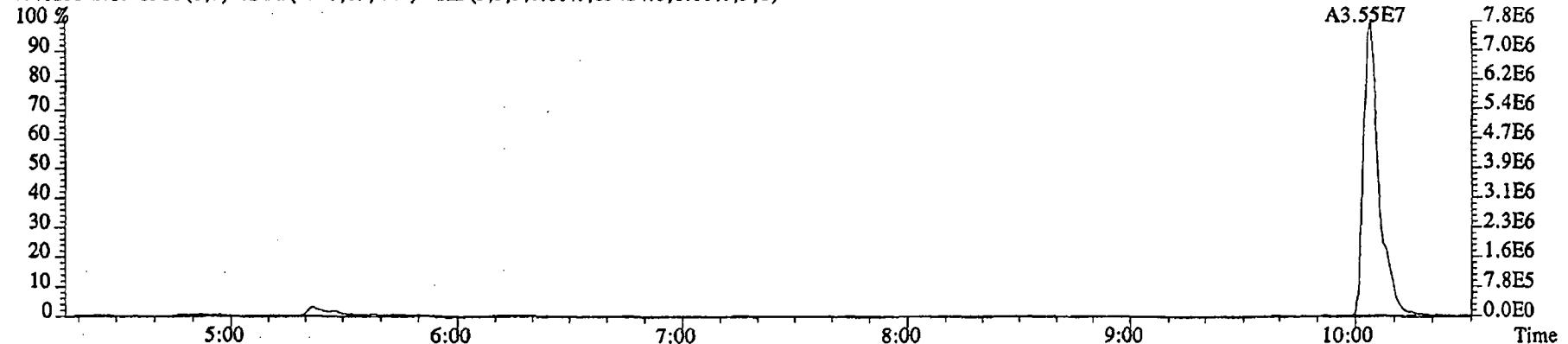
File:08DE045SP #1-461 Acq: 8-DEC-2004 21:21:43 GC EI + Voltage SIR 70SE
 Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
 75.0002 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,159868.0,1.00%,F,T)



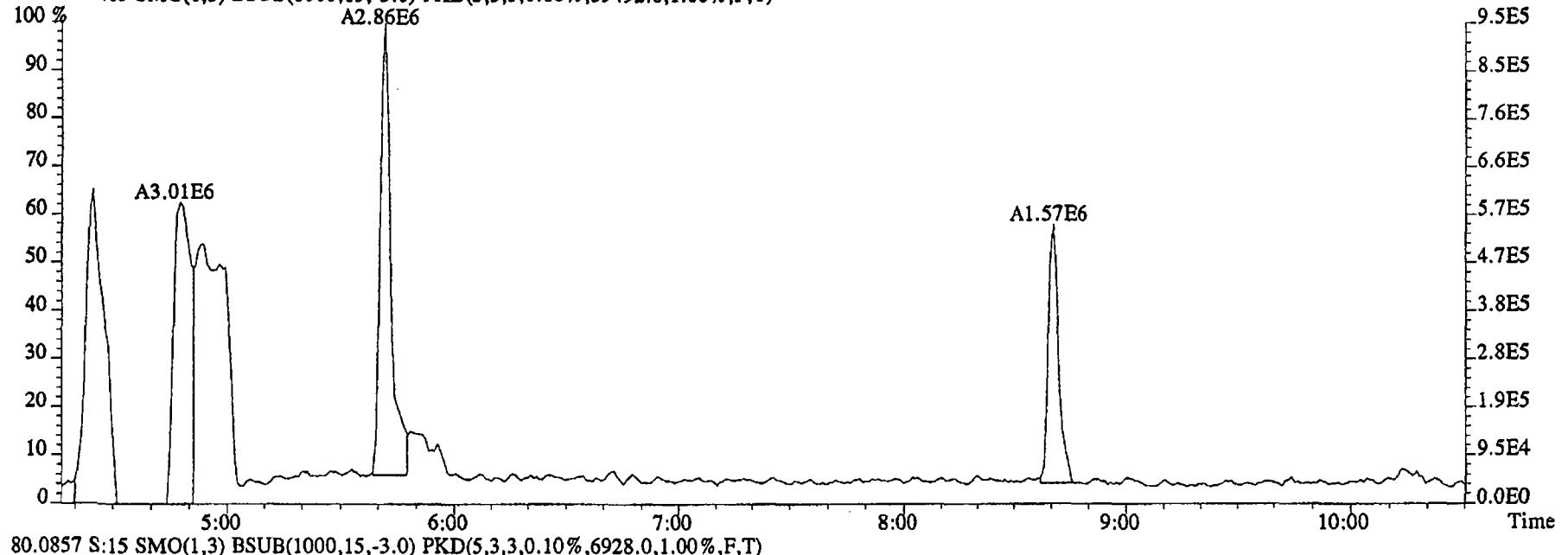
76.9972 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18144.0,1.00%,F,T)



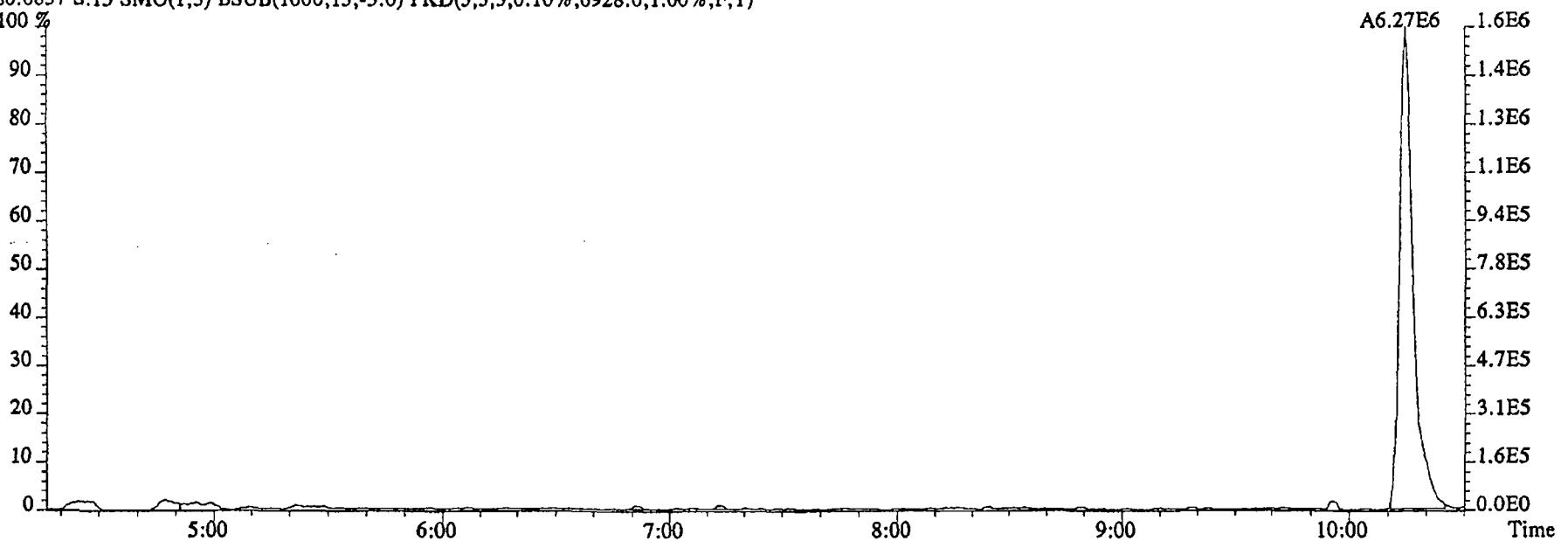
79.0253 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15424.0,1.00%,F,T)



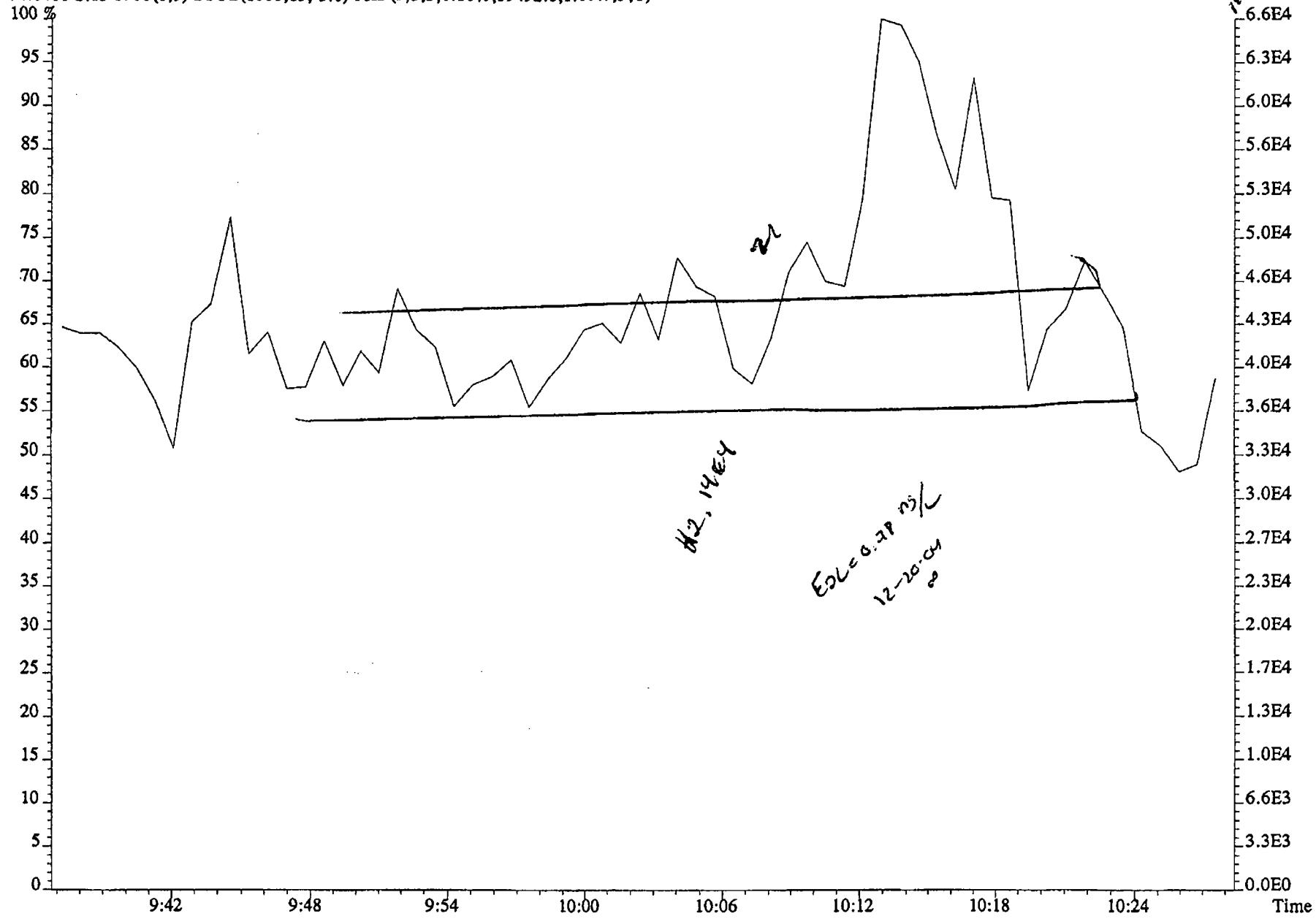
File:08DE045SP #1-461 Acq: 8-DEC-2004 21:21:43 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
74.0480 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,59492.0,1.00%,F,T)



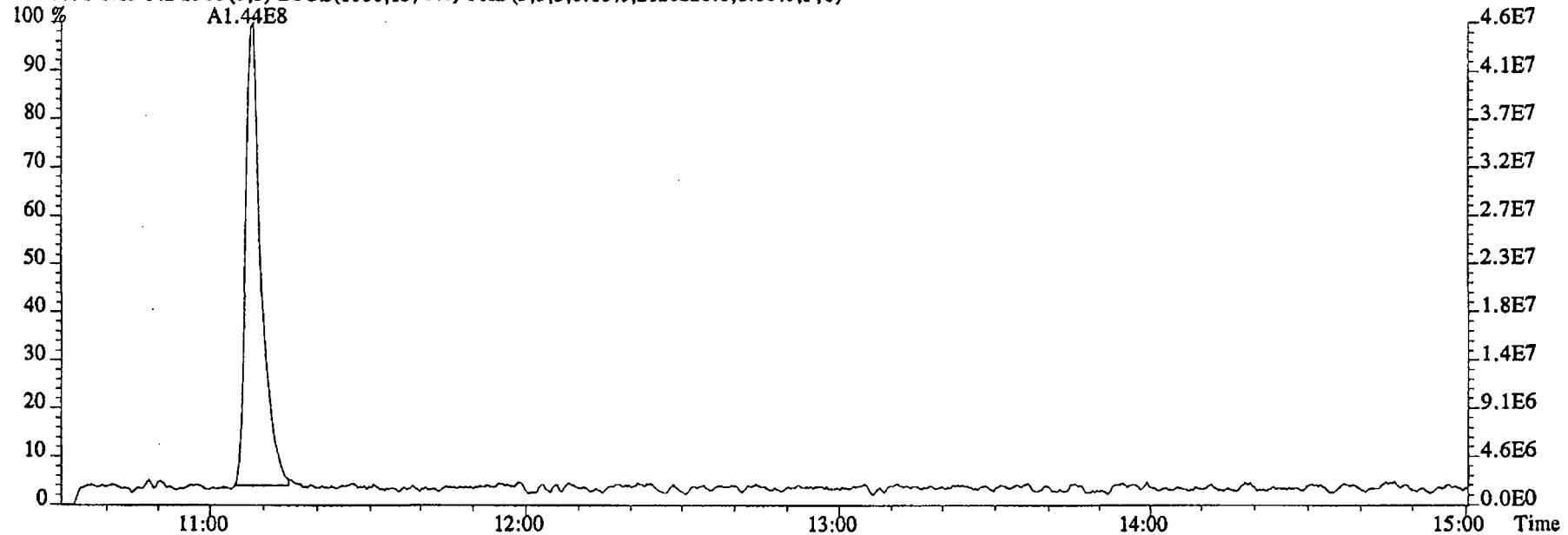
80.0857 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6928.0,1.00%,F,T)



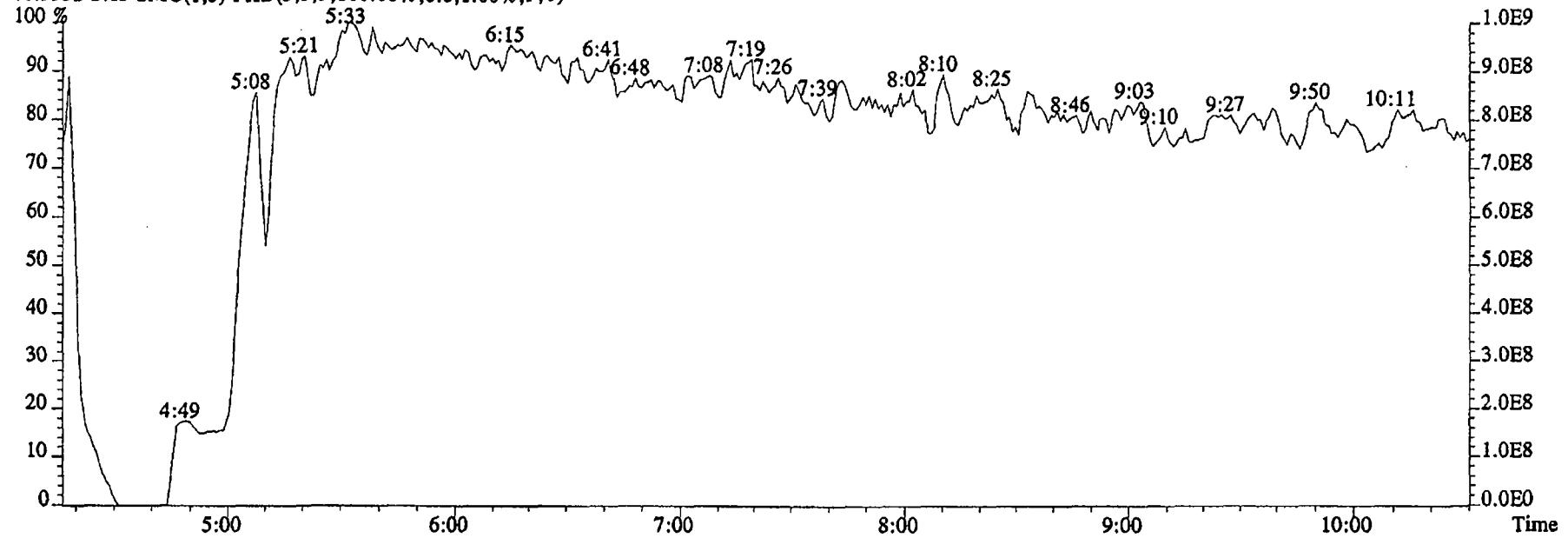
File:08DE045SP #1-461 Acq: 8-DEC-2004 21:21:43 GC El+ Voltage SIR 70SE
Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
74.0480 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,59492.0,1.00%,F,T)



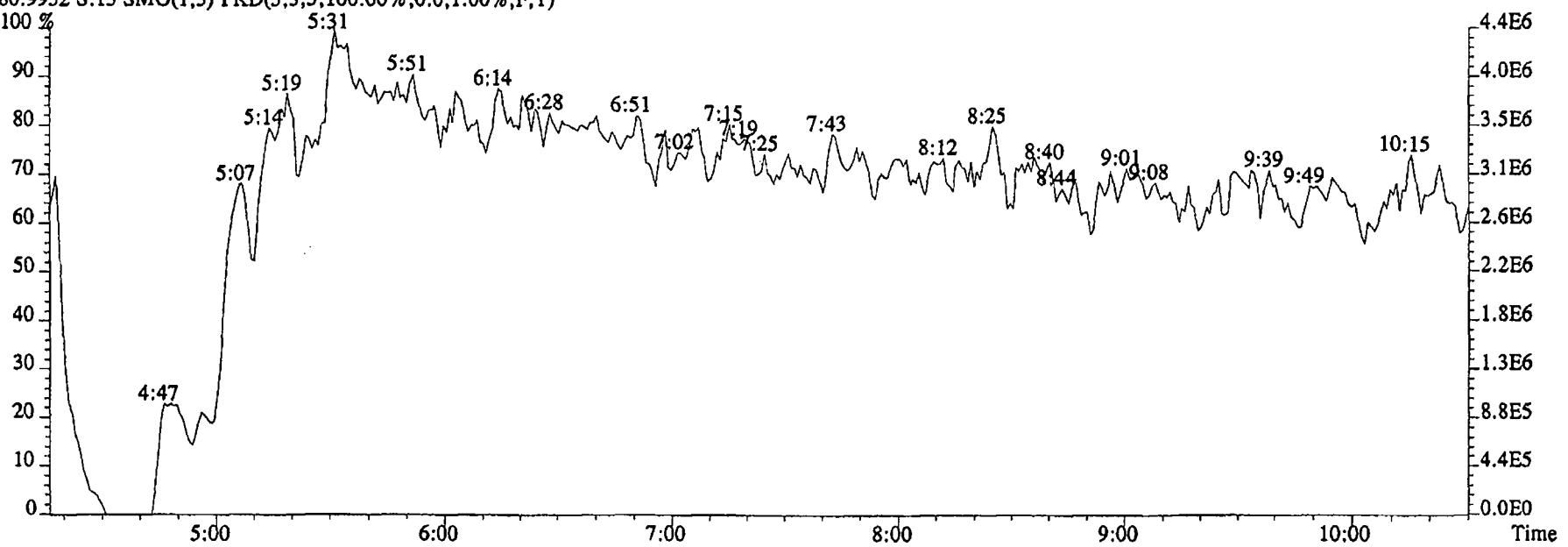
File:08DE045SP #1-627 Acq: 8-DEC-2004 21:21:43 GC EI+ Voltage SIR 70SE
Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
113.0032 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2128220.0,1.00%,F,T)



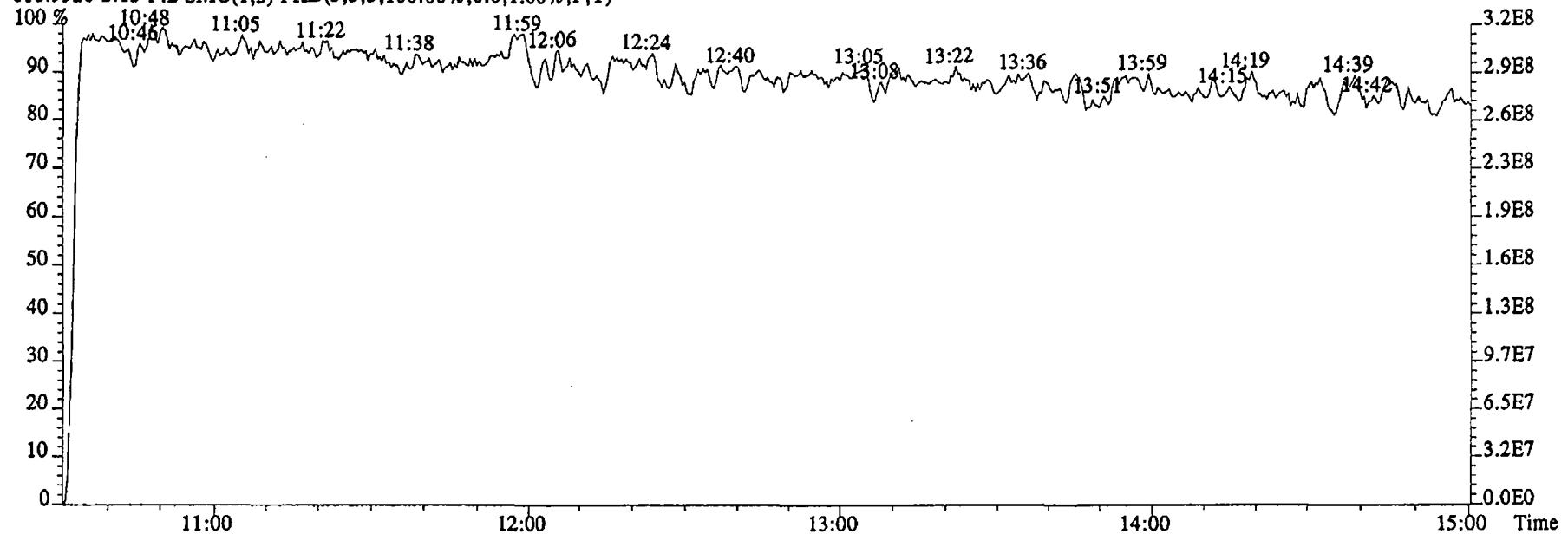
File:08DE045SP #1-461 Acq: 8-DEC-2004 21:21:43 GC EI+ Voltage SIR 70SE
 Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
 68.9952 S:15 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



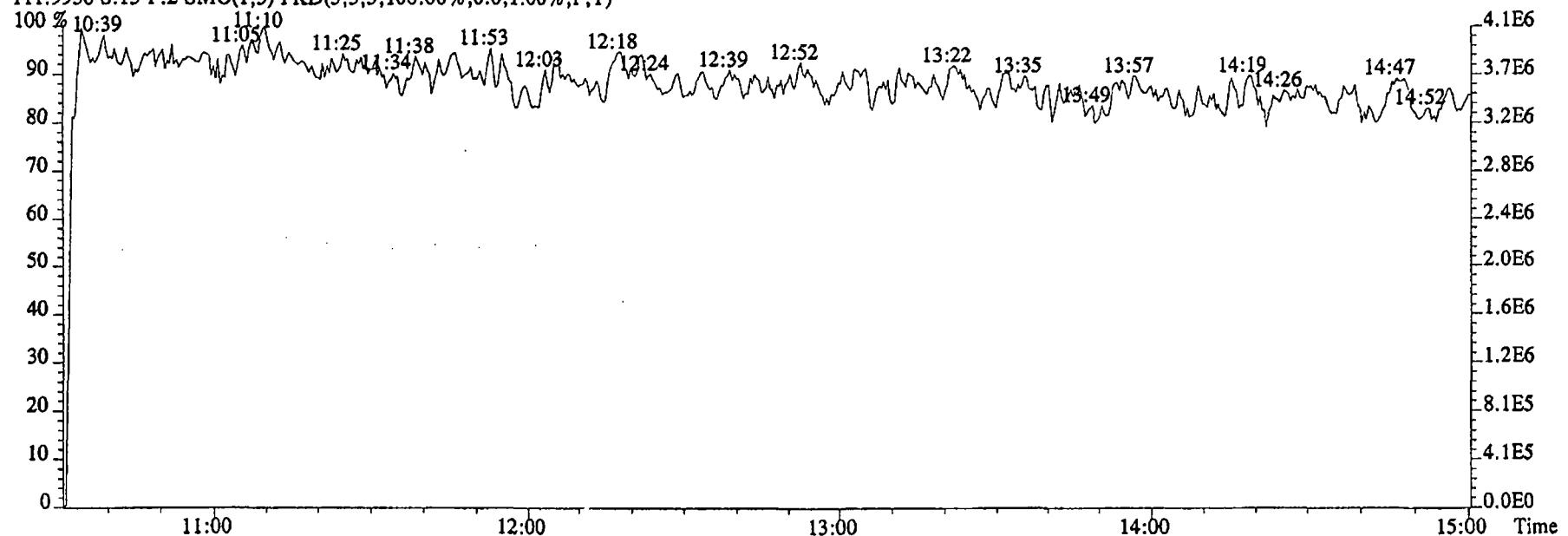
80.9952 S:15 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-627 Acq: 8-DEC-2004 21:21:43 GC El + Voltage SIR 70SE
Sample#15 Text:G0AGV-1-AC :G4L040125-3 Exp:NDMAVOA
118.9920 S:15 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:15 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

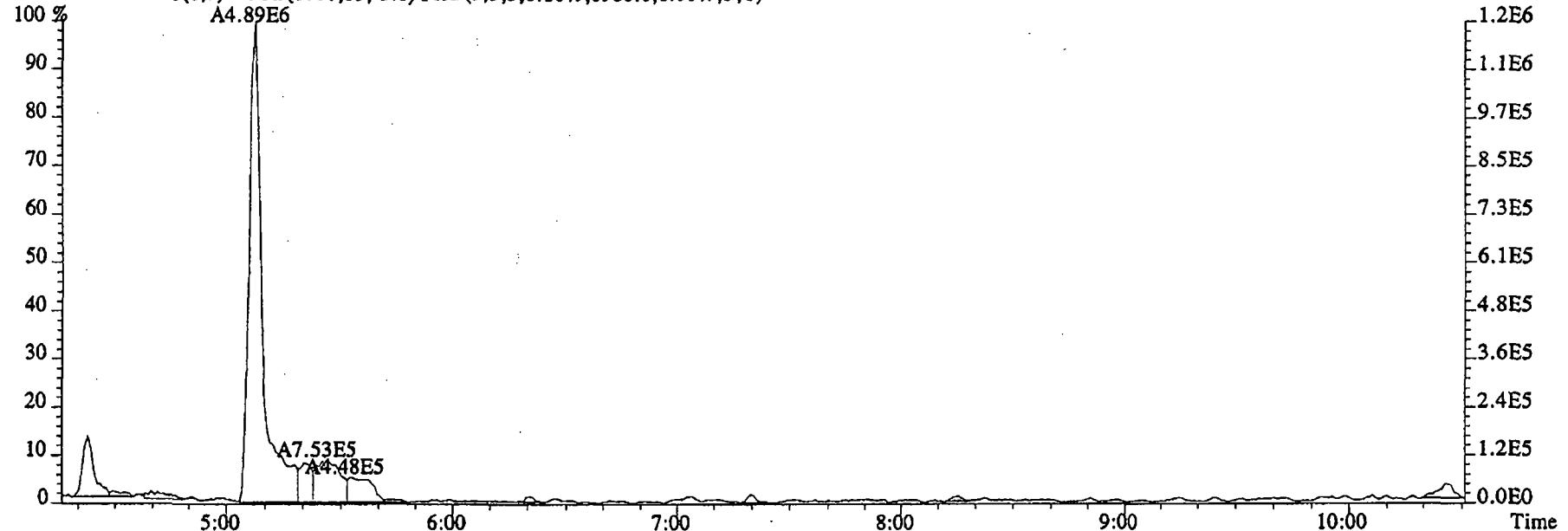


Run text: G0AVX-1-AC Sample text: G0AVX-1-AC :G4L040125-4
 Run #13 Filename: 08DE045SP S: 16 I: 1 Results: 08DE045SP1625
 Acquired: 8-DEC-04 21:42:10 Processed: 9-DEC-04 15:10:44
 Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP
 Factor 1: 1.000 Factor 2: 1.000 Sample size: 0.972 L

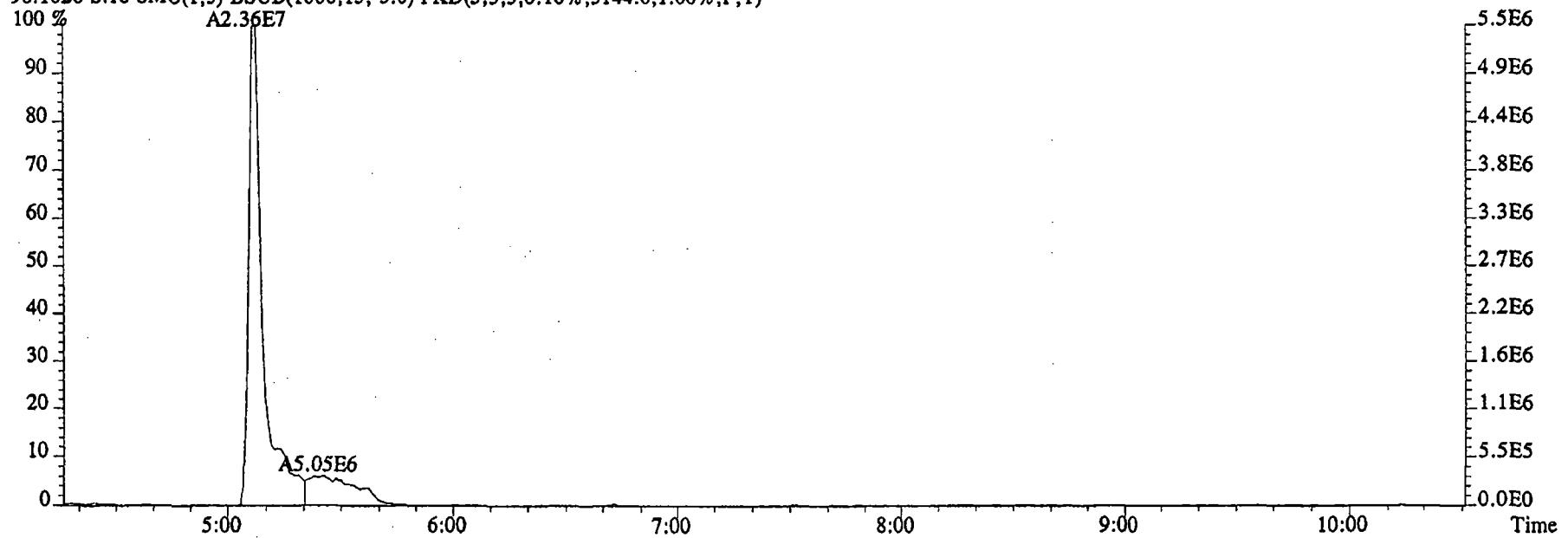
Name	Resp	RA	RT	RRF	Conc	PL	EDL	Rec	M
2-Chloropyridine	34140200		11:07	-	244.52		-	-	n
D8-1,4-Dioxane	23633100		5:07	0.92	154.07		0.21	15.0	n
1,4-Dioxane	4892570		5:07	1.13	189.32		4.50	-	n
D5-123-TriChloroPropane	38925100		10:03	2.52	92.93		0.12	90.3	n
1,2,3-TriChloroPropane	*		Not Fnd	0.50	*	65-0	0.53	-	n
1,2,3-TriChloroPropane	*		Not Fnd	-	*		-	-	n
D6-NDMA	5832780		10:13	1.40	25.08		0.11	24.4	n
NDMA	*		Not Fnd	1.76	*	62-0	3.51 0.87	-	n
2-Chloropyridine	112138000		11:07	-	243.10		-	-	n

12-4-04

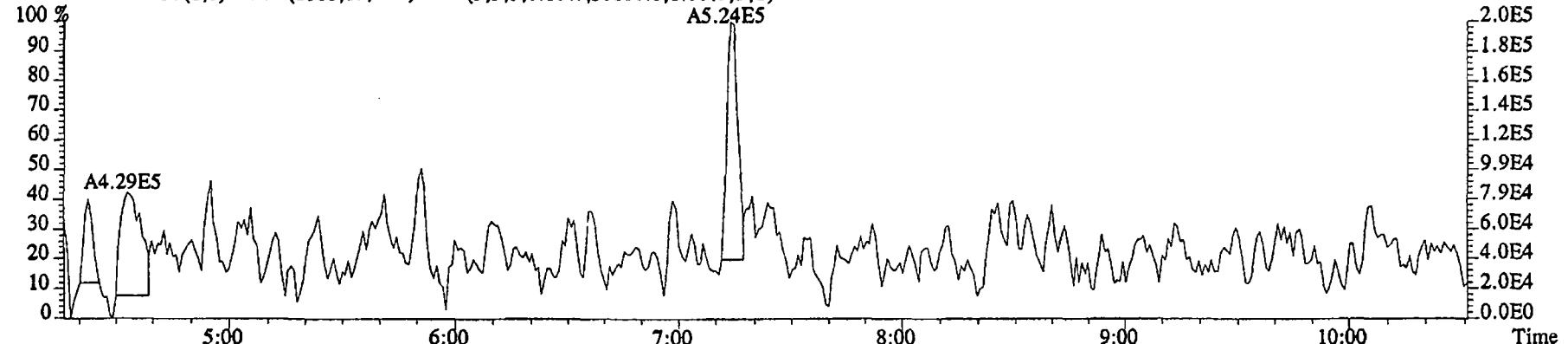
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:42:10 GC EI + Voltage SIR 70SE
Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
88.0524 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8980.0,1.00%,F,T)



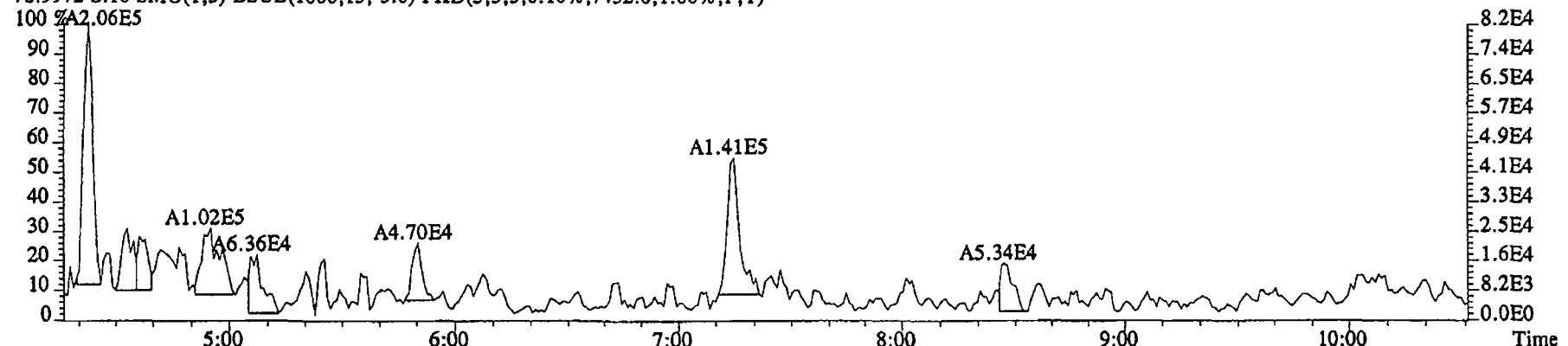
96.1026 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3144.0,1.00%,F,T)



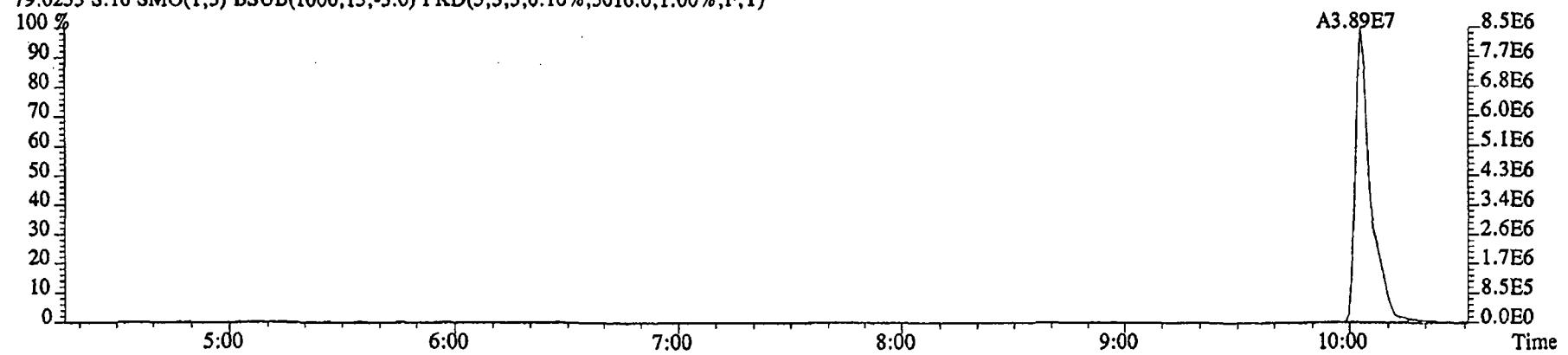
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:42:10 GC EI+ Voltage SIR 70SE
 Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
 75.0002 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56180.0,1.00%,F,T)



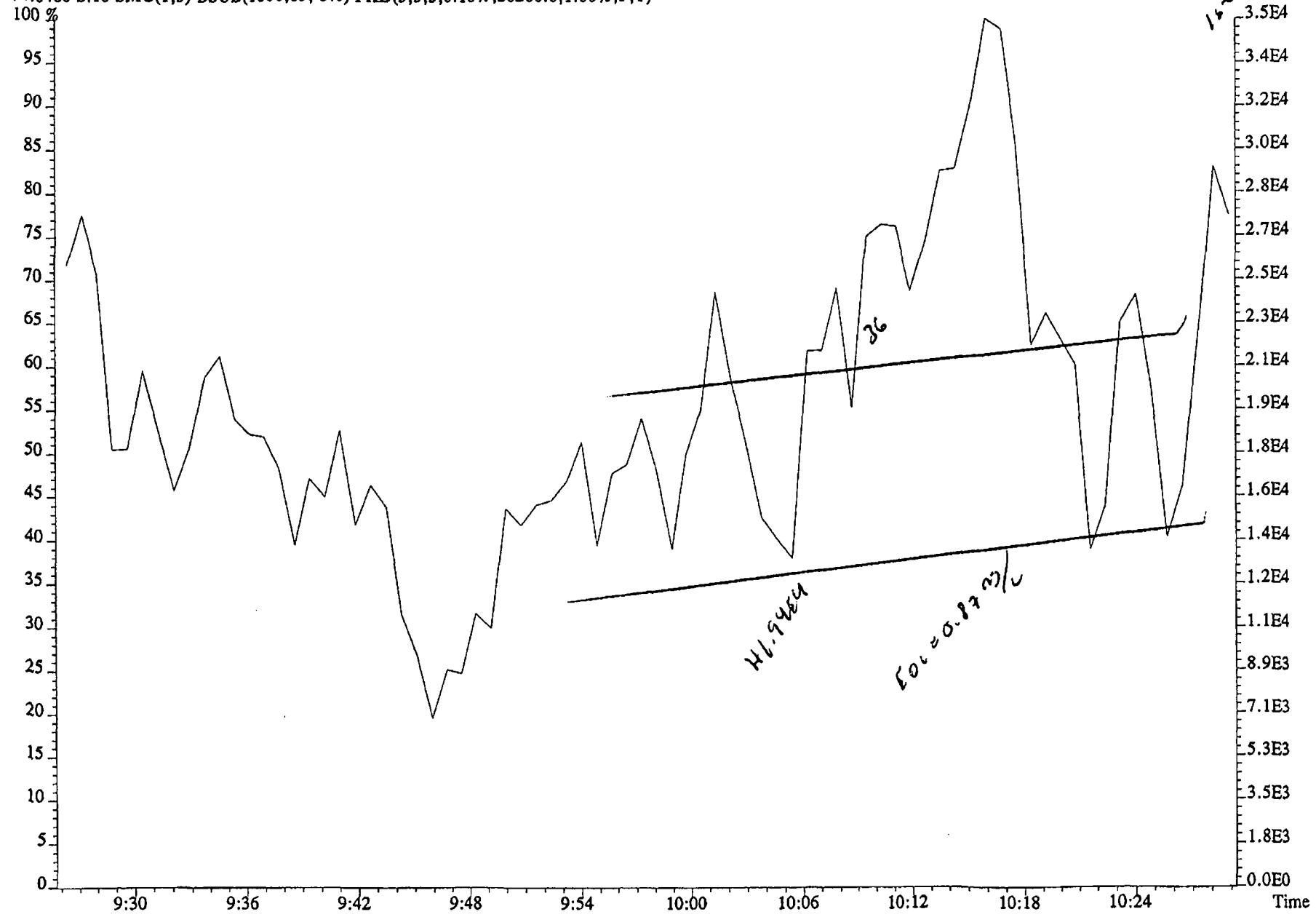
76.9972 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7452.0,1.00%,F,T)



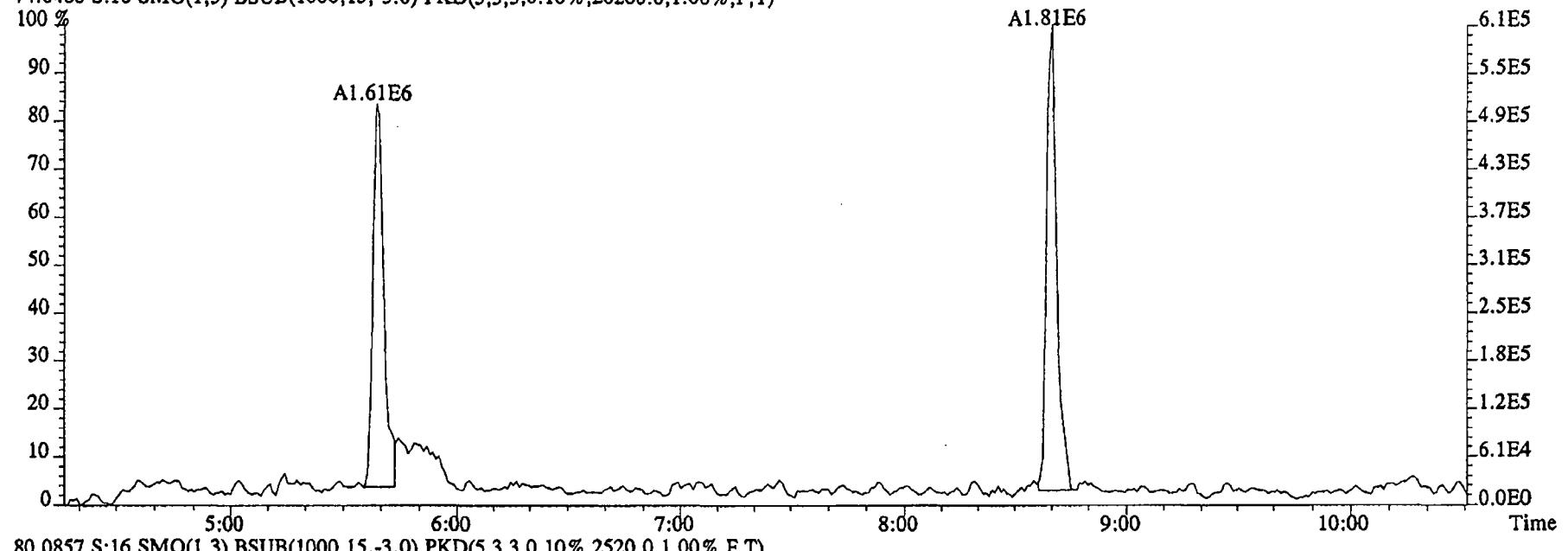
79.0253 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5016.0,1.00%,F,T)



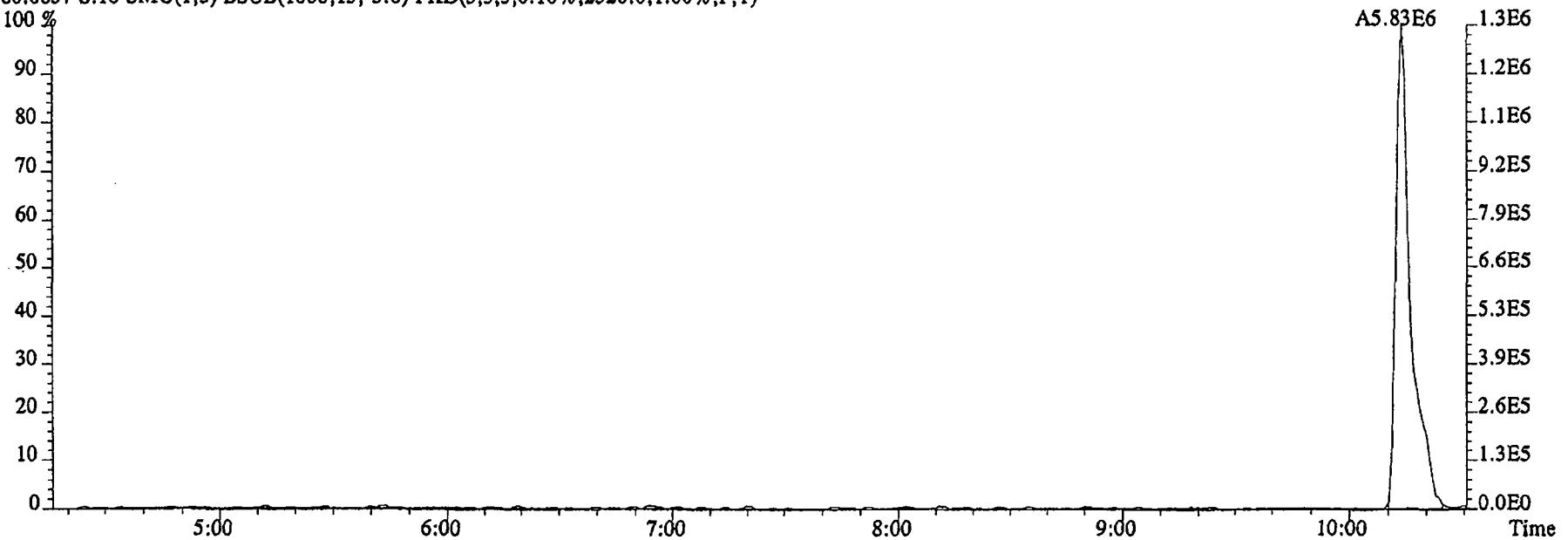
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:42:10 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
74.0480 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(S,3,3,0.10%,26260.0,1.00%,F,T)



File:08DE045SP #1-462 Acq: 8-DEC-2004 21:42:10 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
74.0480 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26260.0,1.00%,F,T)



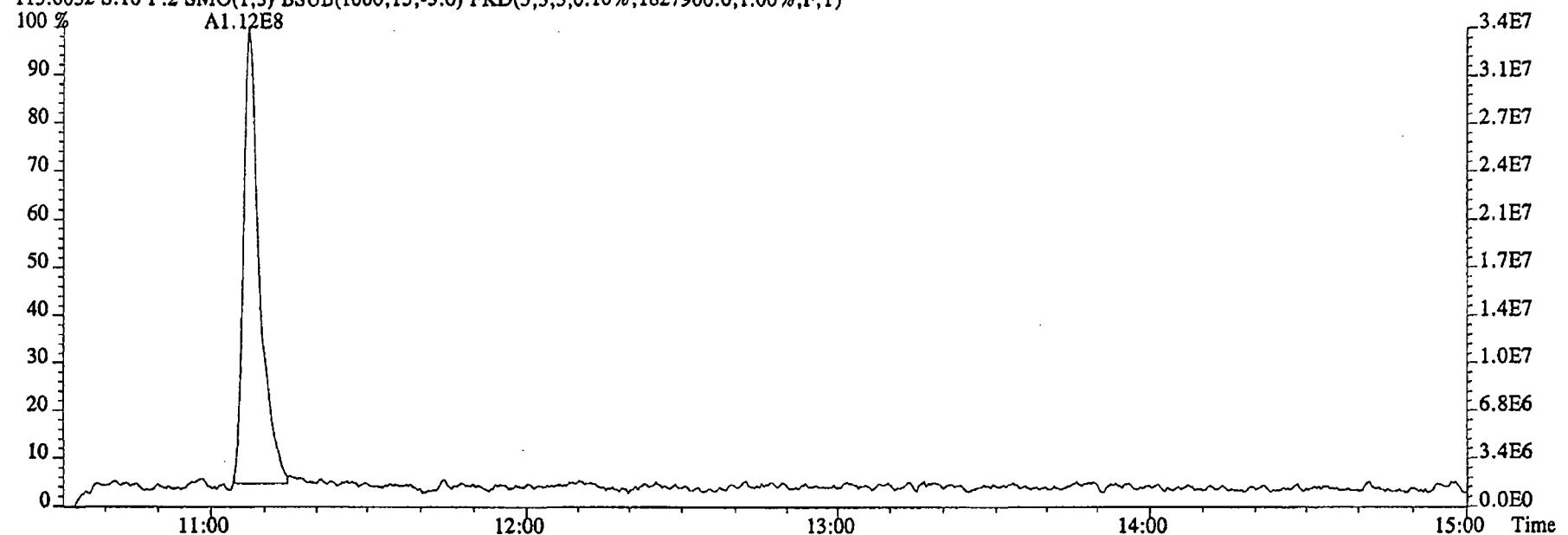
80.0857 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2520.0,1.00%,F,T)



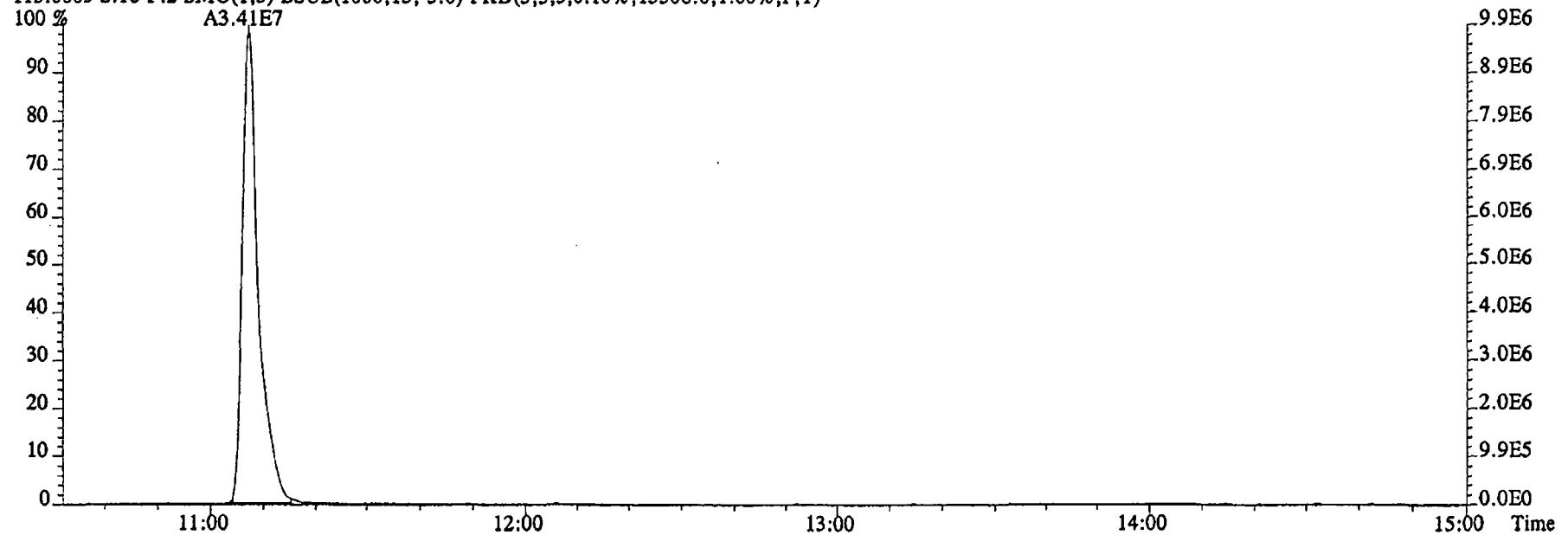
File:08DE045SP #1-625 Acq: 8-DEC-2004 21:42:10 GC EI + Voltage SIR 70SE

Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA

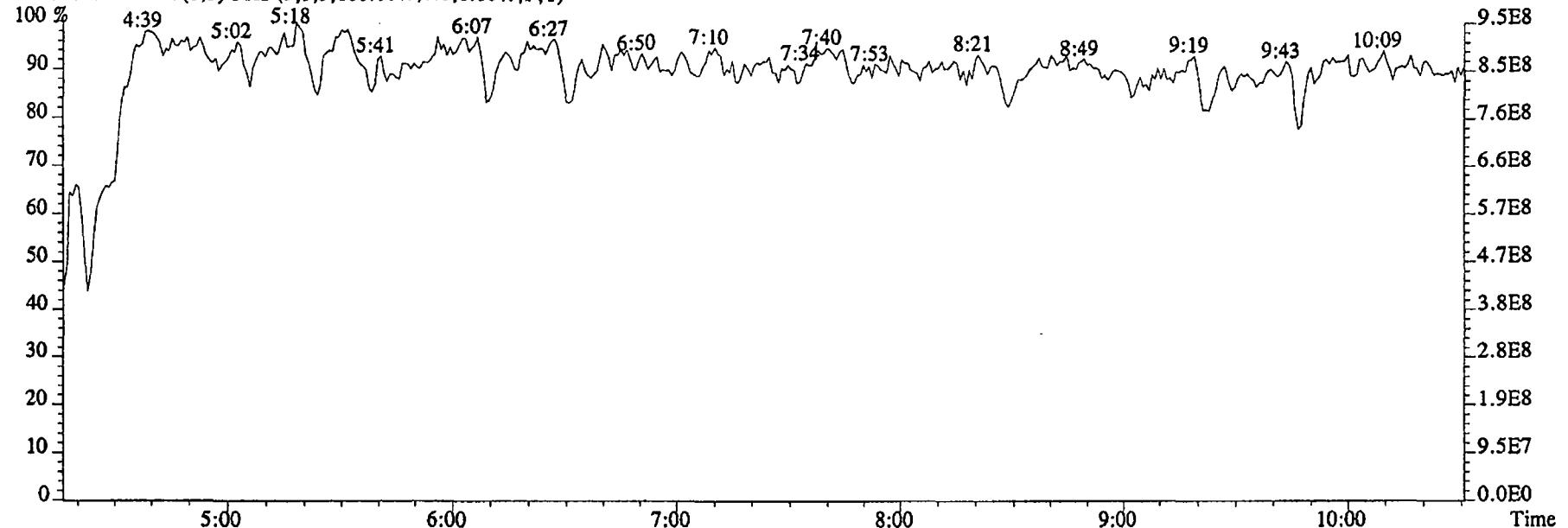
113.0032 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1827900.0,1.00%,F,T)



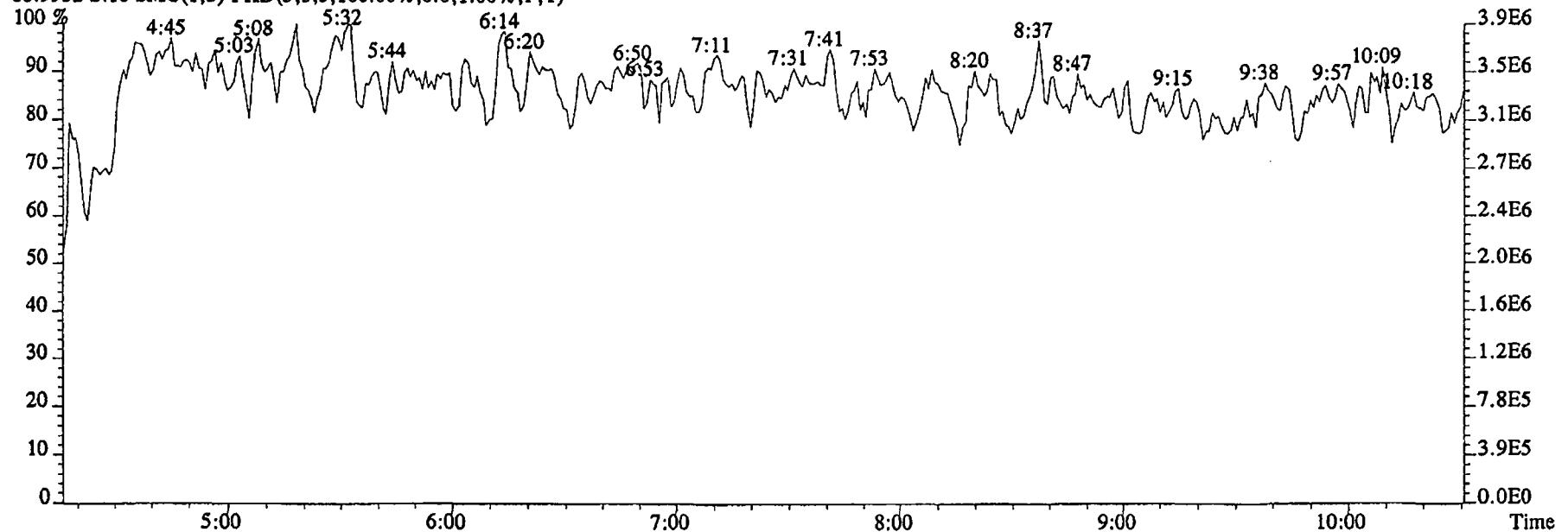
115.0003 S:16 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15308.0,1.00%,F,T)



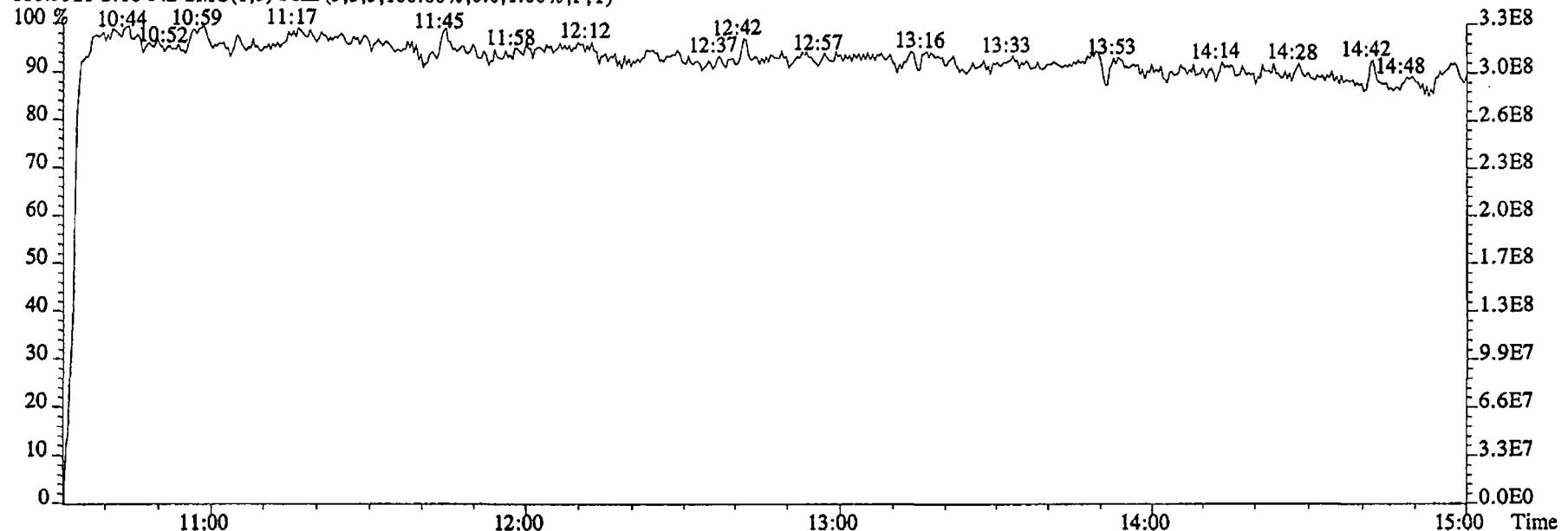
File:08DE045SP #1-462 Acq: 8-DEC-2004 21:42:10 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
68.9952 S:16 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



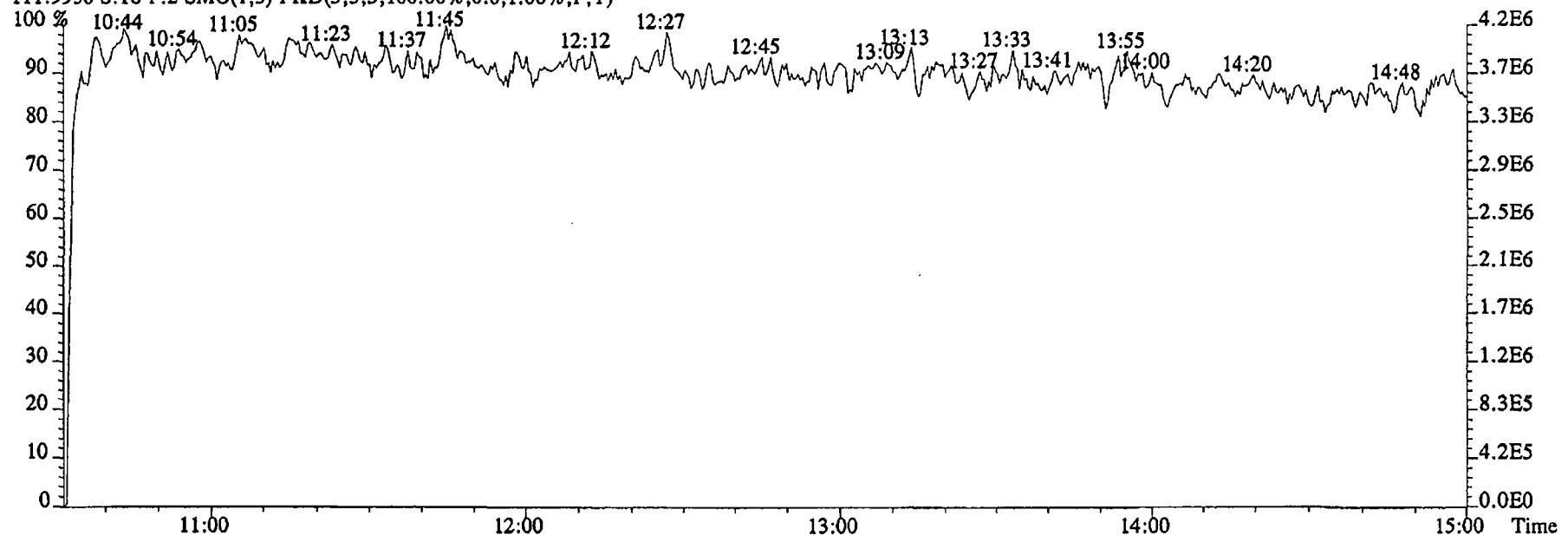
80.9952 S:16 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-625 Acq: 8-DEC-2004 21:42:10 GC EI+ Voltage SIR 70SE
Sample#16 Text:G0AVX-1-AC :G4L040125-4 Exp:NDMAVOA
118.9920 S:16 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:16 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Daily Standard Checklist
High Resolution

Method ID 1625
 Column ID 5SP
 STD ID STR10G
 Analyzed By AM
 Prepared By KS
 Reviewed By C. J. Cull

Associated ICAL 16251208045SP
 Instrument ID 5SP
 STD Solution 2550 GBC
 Date Analyzed 12/8/04
 Date Prepared 12/13/04
 Date Reviewed 12-14-04

ANALYSIS CHECKLIST		INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?		✓	✓
Copy of log-file and Static Resolution present?		✓	✓
CPSM blow up present?	NA		NA
Curve Summary present?	✓		✓
Summary of Method criteria present?	NA		NA
Daily standard within method specified limits?	✓		✓
Analyte retention times correct?	✓		✓
Isotopic ratios within limits?	NA		NA
CPSM valley < method specified limits?**	NA		NA
Are chromatographic windows correct?	✓		✓
Samples analyzed within 12 hrs of daily standard?	✓		✓
Manual reintegration's checked and hardcopies included?	NA		NA
Ending Standard and ending Static Resolutions present	NA		NA

COMMENTS:

* Method 8290: (beginning) +/- 20% from curve RRFs for native analytes, +/- 30% from curve RRFs for labeled compounds.
 Method 8290: (ending) +/- 25% from curve RRFs for native analytes, +/- 35% from curve RRFs for labeled compounds.

Method 8290 (GB): +/- 30% from curve RRFs for native analytes.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613A/1613B: See Method 1613A, Method 1613B or Method 1613B Tetras Daily Standard Criteria.

PAH: +/- 30% from curve RRFs for native and labeled compounds.

PCB: +/- 30% from curve RRFs for native and 50% for labeled compounds.

NCASI 551: +/-20% from curve RRFs for native and labeled compounds.

DBD/DBF: +/-30% from curve RRFs for native analytes; +/- 40% from curve RRFs for labeled compounds.

** Method 23 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and the closest eluters normalized at the smallest peak height of the three peaks (with the 2378 peak being the middle peak).

551/1613A/1613B/8290 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

GB CPSM Criteria: 30% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1210G
 Run #6 Filename 10DE045SP S: 9
 Acquired: 10-DEC-04 19:42:18
 Run: 10DE045SP Analyte: 1625

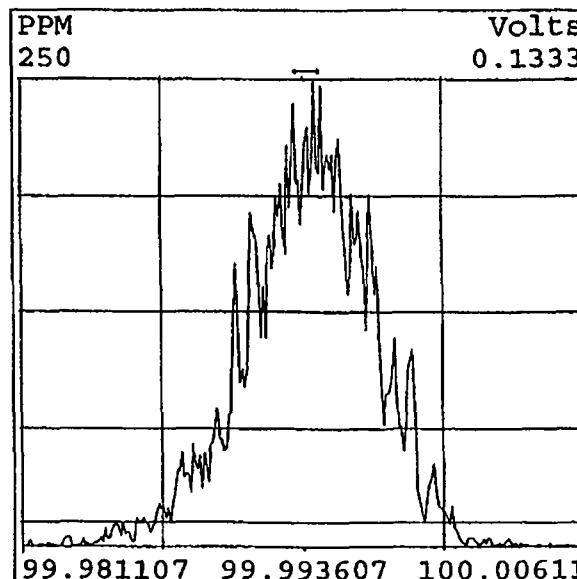
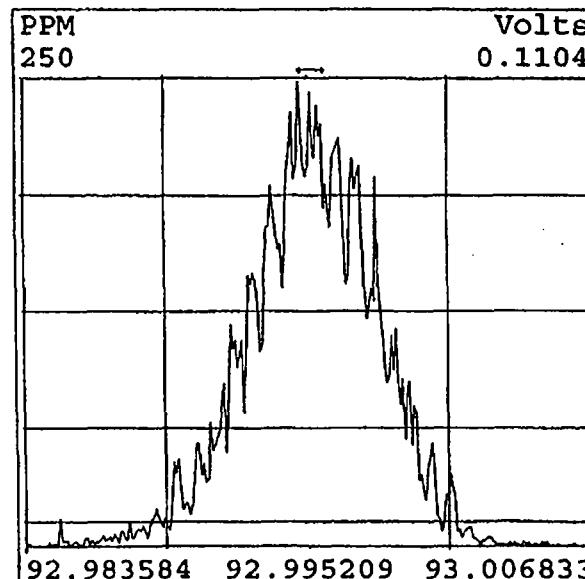
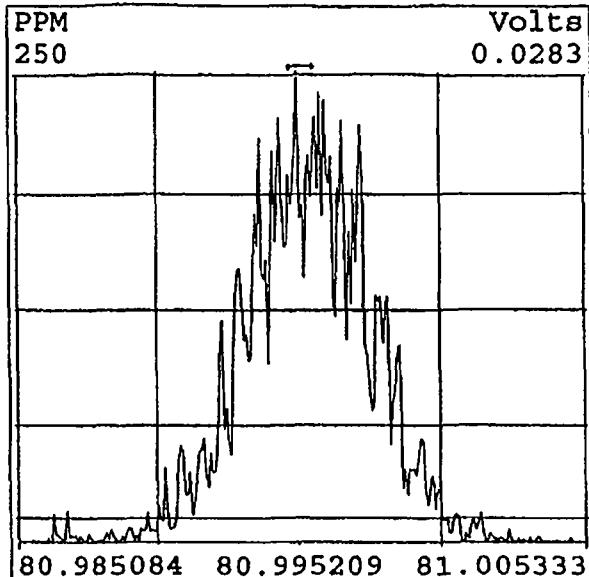
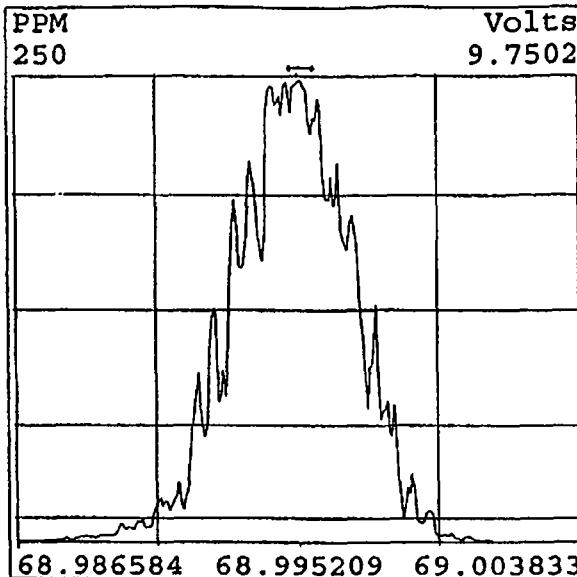
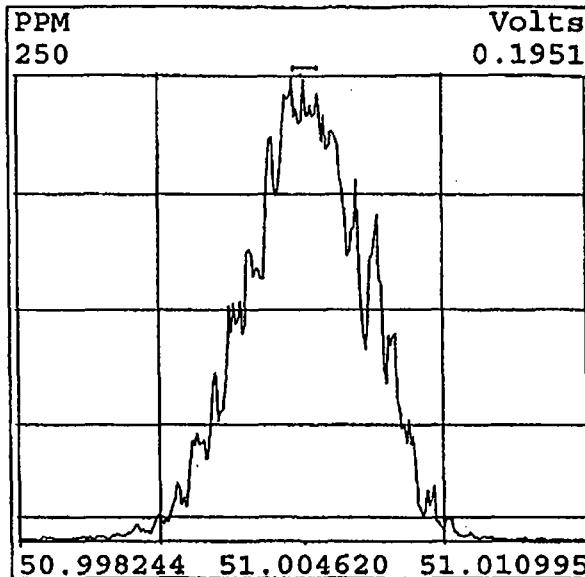
File text: ST1210G :CS3 2350-68C
 I: 1
 Processed: 10-DEC-04 20:07:27
 Cal: 16251210045SP Results: 10DE045SP1625

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	21707700		11:08	-	200.00	-	n
D8-1,4-Dioxane	51660800		5:08	0.48	1000.00	-3.1	n
1,4-Dioxane	2879860		5:08	1.11	50.00	-17.0	n
D5-123-TriChloroPropane	38385300		10:04	3.54	100.00	1.0	n
1,2,3-TriChloroPropane	7549700		10:08	0.39	50.00	0.3	n
1,2,3-TriChloroPropane	23506400		10:08	-	50.00	-	n
D6-NDMA	12533900		10:15	1.15	100.00	-8.8	n
NDMA	7141390		10:14	1.14	50.00	-0.6	n
2-Chloropyridine	74967500		11:08	-	200.00	-	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
10DE045SP	1	ST1210	CS1 2350-68A				1.000	
10DE045SP	2	ST1210A	CS2 2350-68B				1.000	
10DE045SP	3	ST1210B	CS3 2350-68C				1.000	
10DE045SP	4	ST1210C	CS4 2350-68D				1.000	
10DE045SP	5	ST1210D	CS5 2350-68E				1.000	
10DE045SP	6	SB1210	Solvent Blank DCM				1.000	
10DE045SP	7	ST1210E	CS1 2350-68A				1.000	
10DE045SP	8	ST1210F	CS1 2350-68A				1.000	
10DE045SP	9	ST1210G	CS3 2350-68C				1.000	
10DE045SP	10	SB1210A	Solvent Blank DCM				1.000	
10DE045SP	11	G0FX0-1-ACC	G4L040125-1LCS (10X)	500	1625/WATER	VS52	1.000	L
10DE045SP	12	G0FX0-1-ACC	G4L040125-1LCS (50X)	500	1625/WATER		1.000	L
10DE045SP	13	GX2W8-1-AAB	G4K200123-1MB (10X)	500	1625/WATER		1.000	L
10DE045SP	14	GX2W8-1-AAB	G4K200123-1MB (50X)	500	1625/WATER		1.000	L
10DE045SP	15	GX2W8-1-ACC	G4K200123-1LCS (10X)	500	1625/WATER		1.000	L
10DE045SP	16	GX2W8-1-ACC	G4K200123-1LCS (50X)	500	1625/WATER		1.000	L
10DE045SP	17	GXHNK-1-AA	G4K200123-1 (10X)	500	1625/WATER		1.041	L
10DE045SP	18	GXHNK-1-AA	G4K200123-1 (50X)	500	1625/WATER		1.041	L
10DE045SP	19	GXHNP-1-AA	G4K200123-2 (10X)	500	1625/WATER		1.060	L
10DE045SP	20	GXHNP-1-AA	G4K200123-2 (50X)	500	1625/WATER		1.060	L
10DE045SP	21	G0FX0-1-AAB	G4L040125-1MB (10X)	500	1625/WATER		1.000	L
10DE045SP	22	G0FX0-1-AAB	G4L040125-1MB (50X)	500	1625/WATER		1.000	L
9DE045SP	23	G0FX0-1-ADL	G4L040125-1DCS (10X)	500	1625/WATER		1.000	L
JDE045SP	24	G0FX0-1-ADL	G4L040125-1DCS (50X)	500	1625/WATER		1.000	L
10DE045SP	25	G0A8Q-1-AE	G4L040211-30 (10X)	500	1625/WATER		0.970	L
10DE045SP	26	G0A8Q-1-AE	G4L040211-30 (50X)	500	1625/WATER		0.970	L
10DE045SP	27	NDMA-QC1	NDMA-QC1 (10X)	500	1625/WATER	VS53	1.000	Samp
10DE045SP	28	NDMA-QC1	NDMA-QC1 (50X)	500	1625/WATER		1.000	Samp
10DE045SP	29	NDMA-QC2	NDMA-QC2 (10X)	500	1625/WATER		1.000	Samp
10DE045SP	30	NDMA-QC2	NDMA-QC2 (50X)	500	1625/WATER		1.000	Samp
10DE045SP	31	GX8C2-1-AAB	G4L010311-1MB	500	1625/WATER		1.000	L
10DE045SP	32	SB1210B	Solvent Blank DCM				1.000	
10DE045SP	33	ST1210H	CS3 2350-68C				1.000	
10DE045SP	34	SB1210C	Solvent Blank DCM				1.000	
10DE045SP	35	G0E5Q-1-AAB	G4L040212-10MB	500	1625/WATER	VS53	10.000	g
10DE045SP	36	G0E5Q-1-ACC	G4L040212-10LCS	500	1625/WATER		10.000	g
10DE045SP	37	G0A84-1-AD	G4L040212-10	500	1625/WATER		10.000	g
10DE045SP	38	G0A85-1-AD	G4L040212-11	500	1625/WATER		10.000	g
10DE045SP	39	G0A86-1-AD	G4L040212-12	500	1625/WATER		10.000	g
10DE045SP	40	G0A87-1-AD	G4L040212-13	500	1625/WATER		10.000	g
10DE045SP	41	G0A88-1-AD	G4L040212-14	500	1625/WATER		10.000	g
10DE045SP	42	G0A89-1-AD	G4L040212-15	500	1625/WATER		10.000	g
10DE045SP	43	G0A9A-1-AD	G4L040212-16	500	1625/WATER		10.000	g
10DE045SP	44	G0A9C-1-AD	G4L040212-17	500	1625/WATER		10.000	g
10DE045SP	45	G0A9D-1-AD	G4L040212-18	500	1625/SOLID		10.000	g
10DE045SP	46	G0A9D-1-AGS	G4L040212-18MS	500	1625/SOLID		10.000	g
10DE045SP	47	G0A9D-1-AHD	G4L040212-18SD	500	1625/SOLID		10.000	g
10DE045SP	48	G0A9E-1-AD	G4L040212-19	500	1625/SOLID		10.000	g
JDE045SP	49	G0A9F-1-AD	G4L040212-20	500	1625/SOLID		10.000	g
10DE045SP	50	G0A9G-1-AD	G4L040212-21	500	1625/SOLID		10.000	g
10DE045SP	51	G0A9L-1-AD	G4L040212-25	500	1625/SOLID		10.000	g
10DE045SP	52	G0A9M-1-AD	G4L040212-26	500	1625/SOLID		10.000	g
10DE045SP	53	G0A9N-1-AD	G4L040212-27	500	1625/SOLID		10.000	g

10DE045SP	54	G0A9P-1-AD	G4L040212-28	500	1625/SOLID	10.000 g
10DE045SP	55	G0A9Q-1-AD	G4L040212-29	500	1625/SOLID	10.000 g
10DE045SP	56	G0AR-1-AD	G4L040212-30	500	1625/SOLID	10.000 g
10DE045SP	57	G0AT-1-AD	G4L040212-31	500	1625/SOLID	10.000 g
10DE045SP	58	G0AV-1-AD	G4L040212-32	500	1625/SOLID	10.000 g
10DE045SP	59	SB1210D	Solvent Blank DCM			1.000
10DE045SP	60	SB1210E	Solvent Blank DCM			1.000
10DE045SP	61	ST1210I	CS3 2350-68C			1.000
10DE045SP	62					1.000
10DE045SP	63					1.000
10DE045SP	64		AM 12-10-04			1.000

Peak Locate Examination:10-DEC-2004:16:52 File:10DE045SP
Experiment:NDMAVOA Function:1 Reference:PFK



Page 1 of 1

Run: 10DE045SPIC Analyte: 1625

Cal: 16251210045SP

ST1210F :CS1 2350-68A

ST1210C :CS4 2350-68D

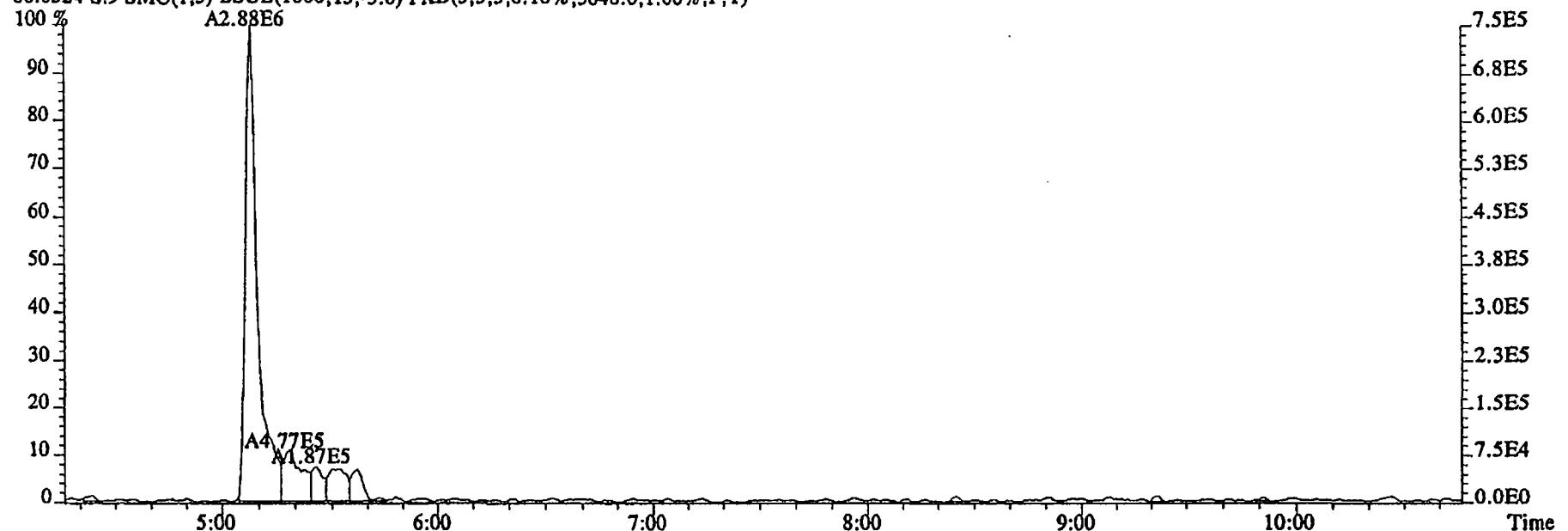
ST1210A :CS2 2350-68B

ST1210D :CS5 2350-68E

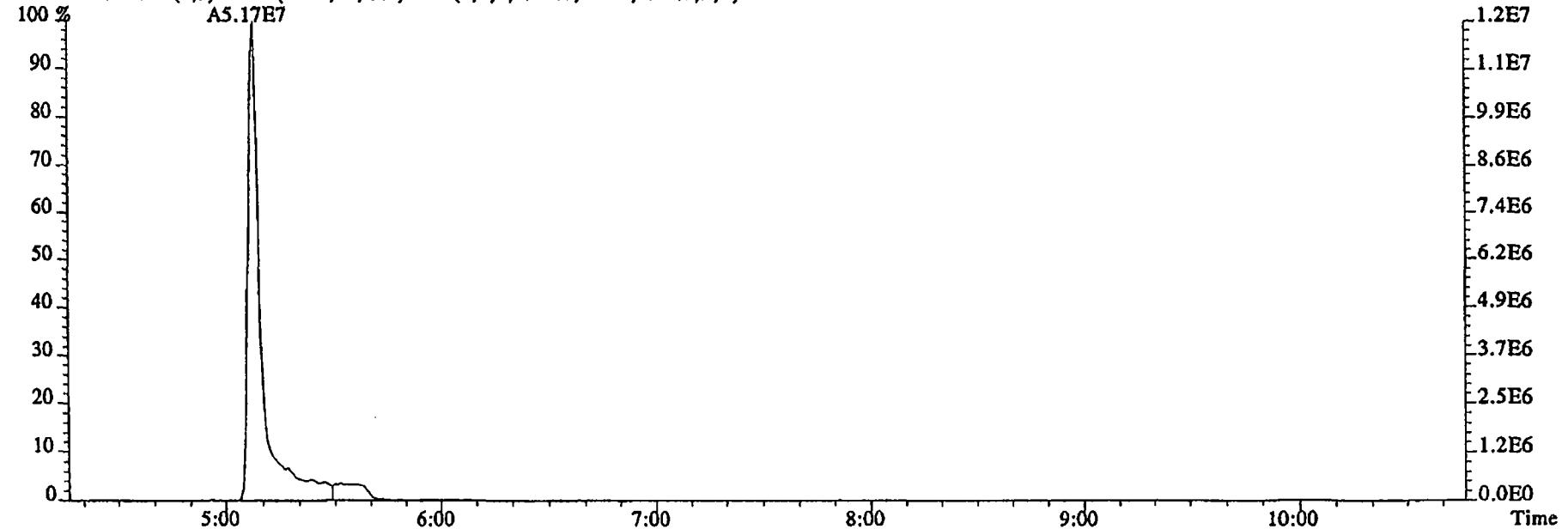
ST1210B :CS3 2350-68C

Name	Mean	S. D.	%RSD	10DE045SP				
				S8	S2	S3	S4	S5
RRF1	RRF2	RRF3	RRF4	RRF5				
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.491	0.059	12.0 %	0.59	0.44	0.50	0.45	0.47
1,4-Dioxane	1.344	0.161	11.9 %	1.32	1.14	1.25	1.54	1.47
D5-123-TriChloroPropane	3.503	0.188	5.38 %	3.70	3.44	3.69	3.43	3.25
1,2,3-TriChloroPropane	0.392	0.034	8.66 %	0.44	0.35	0.36	0.40	0.40
1,2,3-TriChloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	1.266	0.178	14.1 %	1.18	1.17	1.14	1.27	1.57
NDMA	1.147	0.063	5.49 %	1.17	1.06	1.11	1.22	1.17
2-Chloropyridine	-	-	- %	-	-	-	-	-

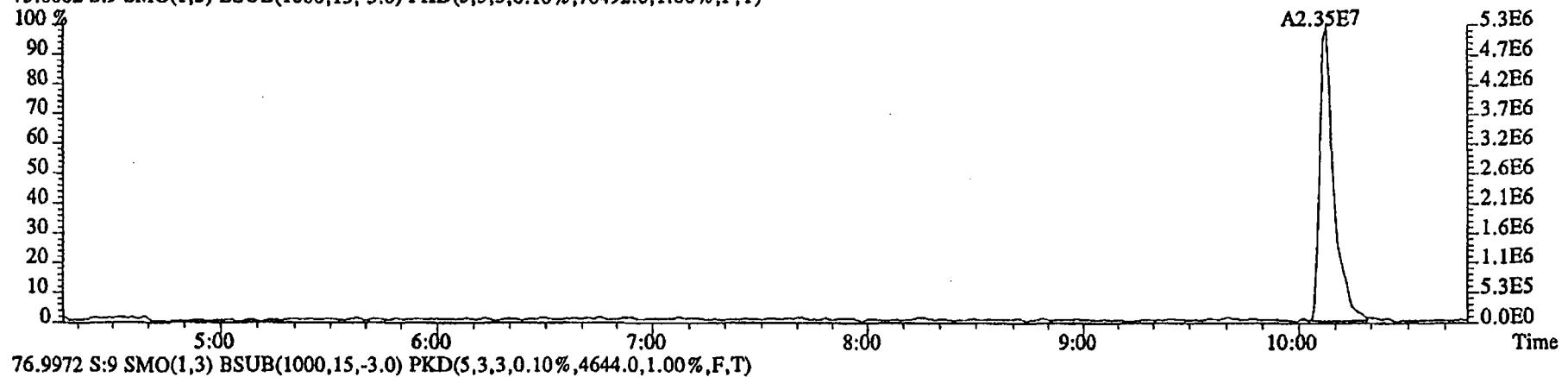
File:10DE045SP #1-481 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G :CS3 2350-68C Exp:NDMAVOA
88.0524 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5048.0,1.00%,F,T)



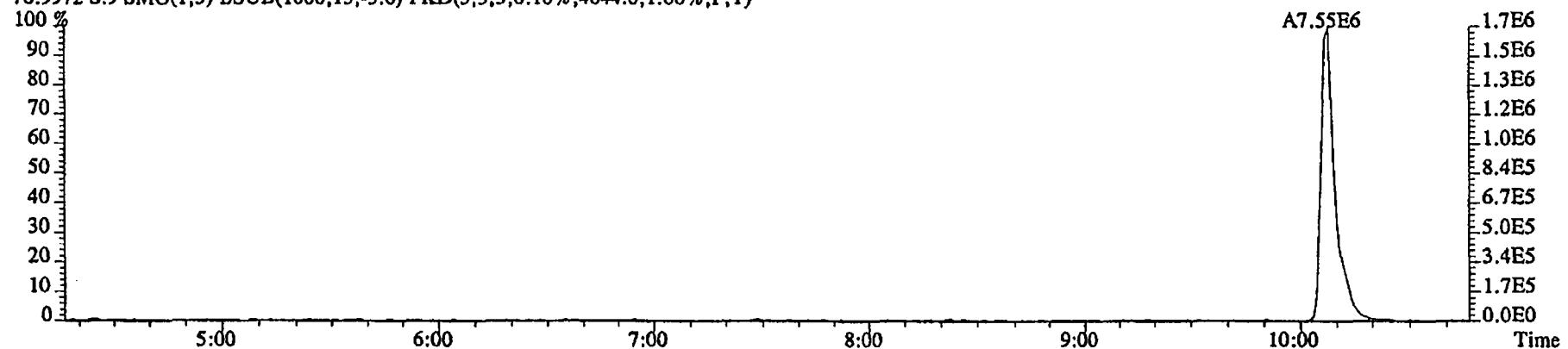
96.1026 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,360.0,1.00%,F,T)



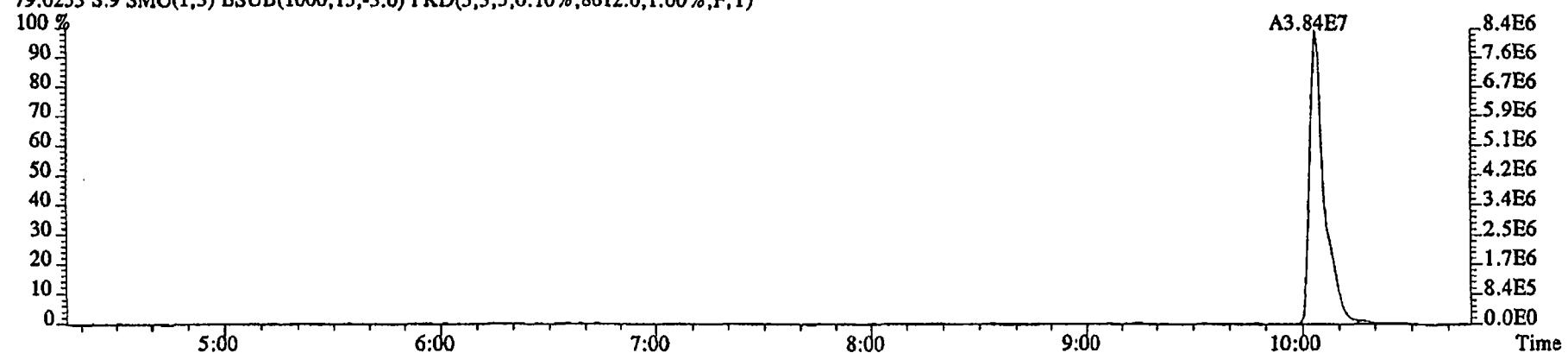
File:10DE045SP #1-481 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G :CS3 2350-68C Exp:NDMAVOA
75.0002 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,70492.0,1.00%,F,T)



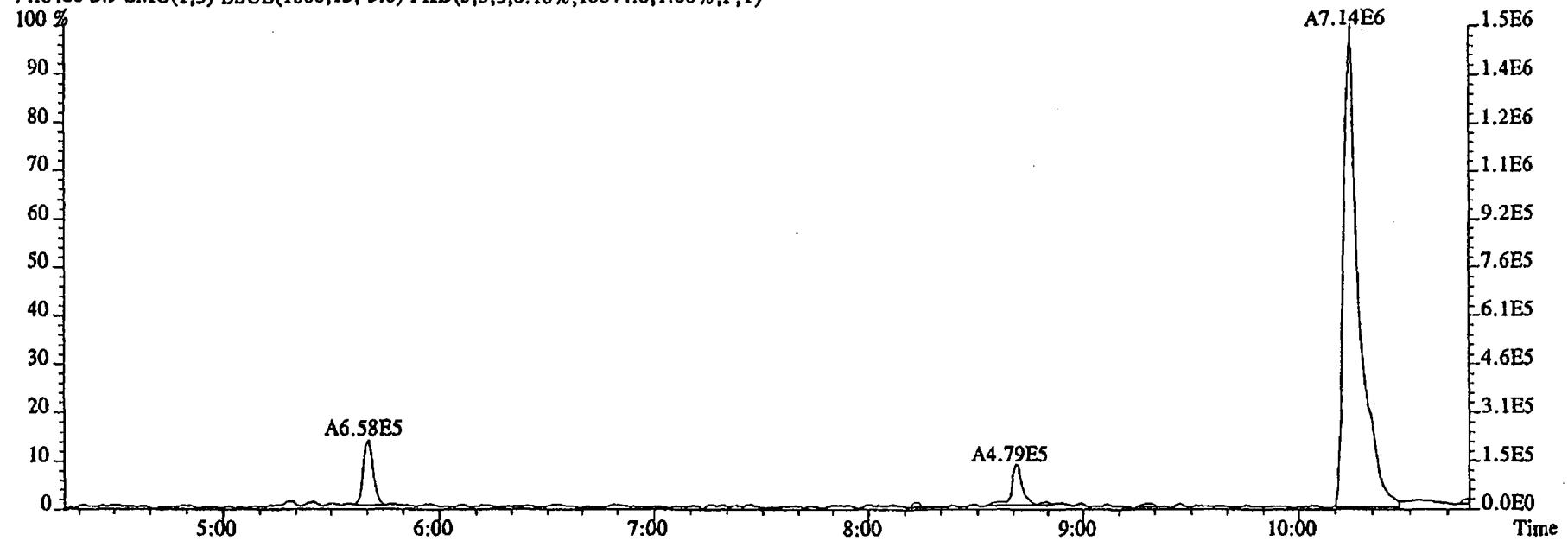
76.9972 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4644.0,1.00%,F,T)



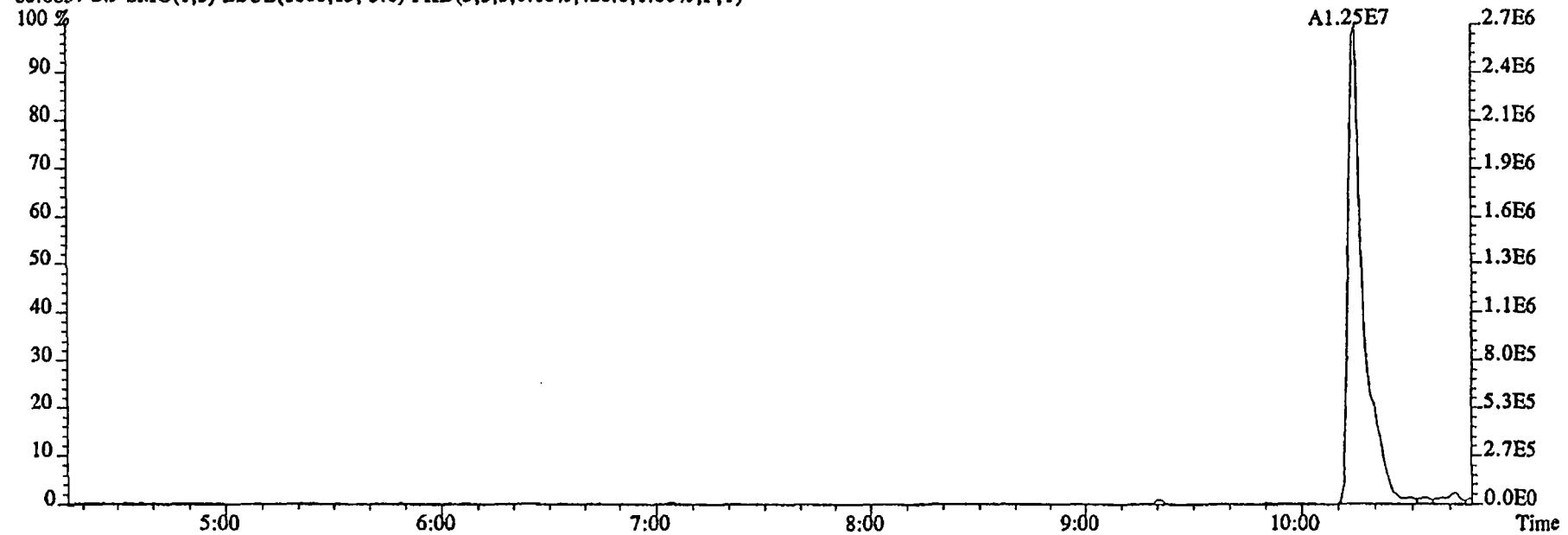
79.0253 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8612.0,1.00%,F,T)



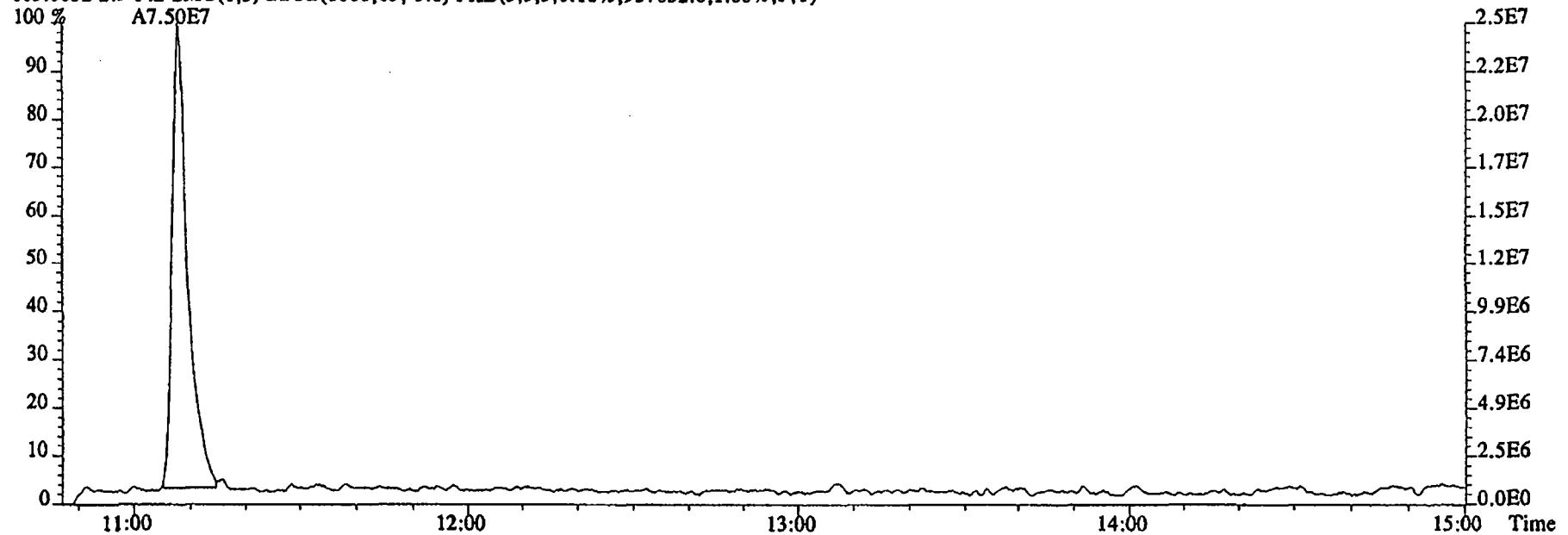
File:10DE045SP #1-481 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G CS3 2350-68C Exp:NDMAVOA
74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10644.0,1.00%,F,T)



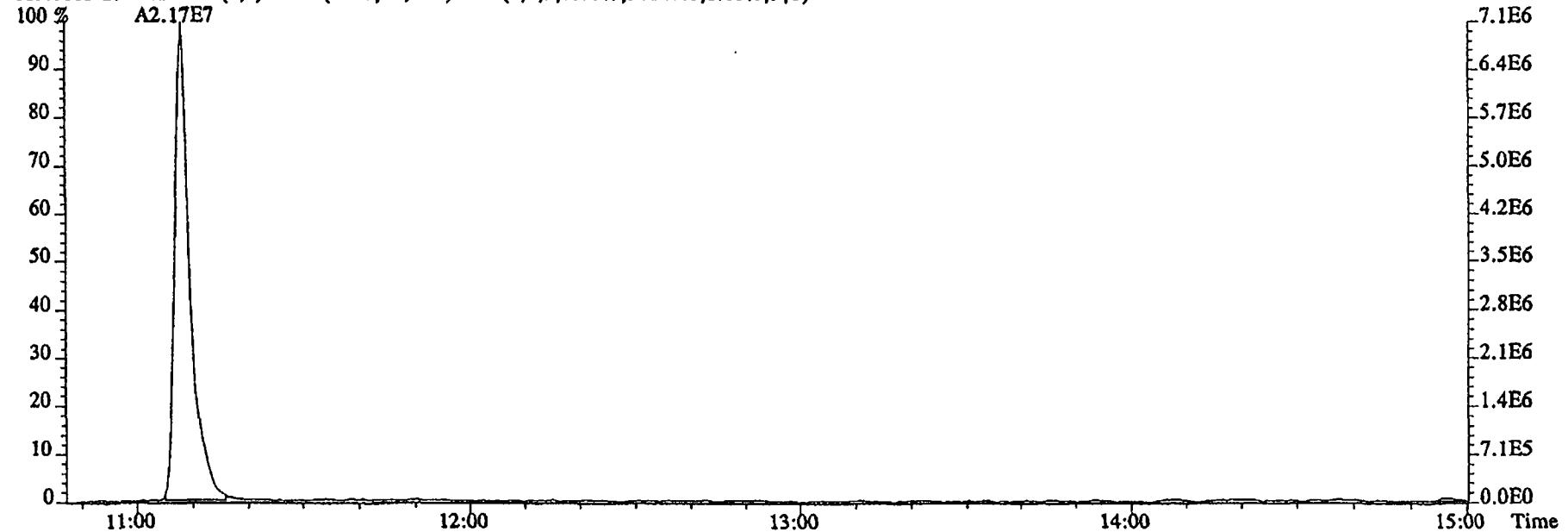
80.0857 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,420.0,1.00%,F,T)



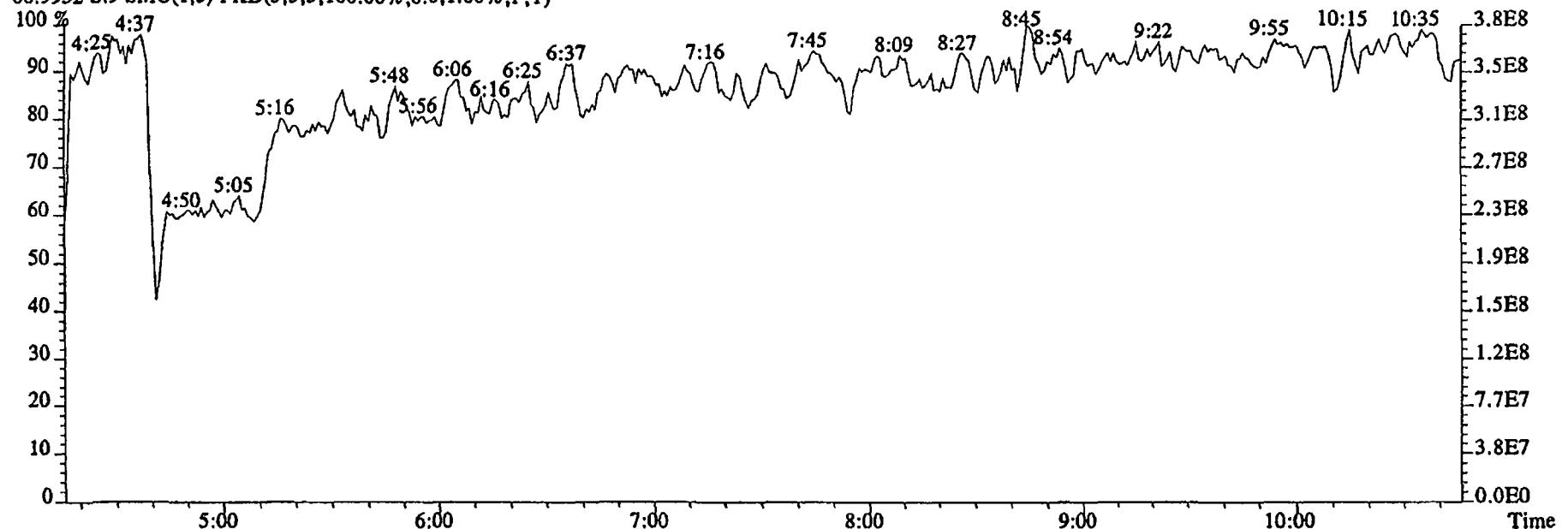
File:10DE045SP #1-590 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G :CS3 2350-68C Exp:NDMAVOA
113.0032 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,937032.0,1.00%,F,T)



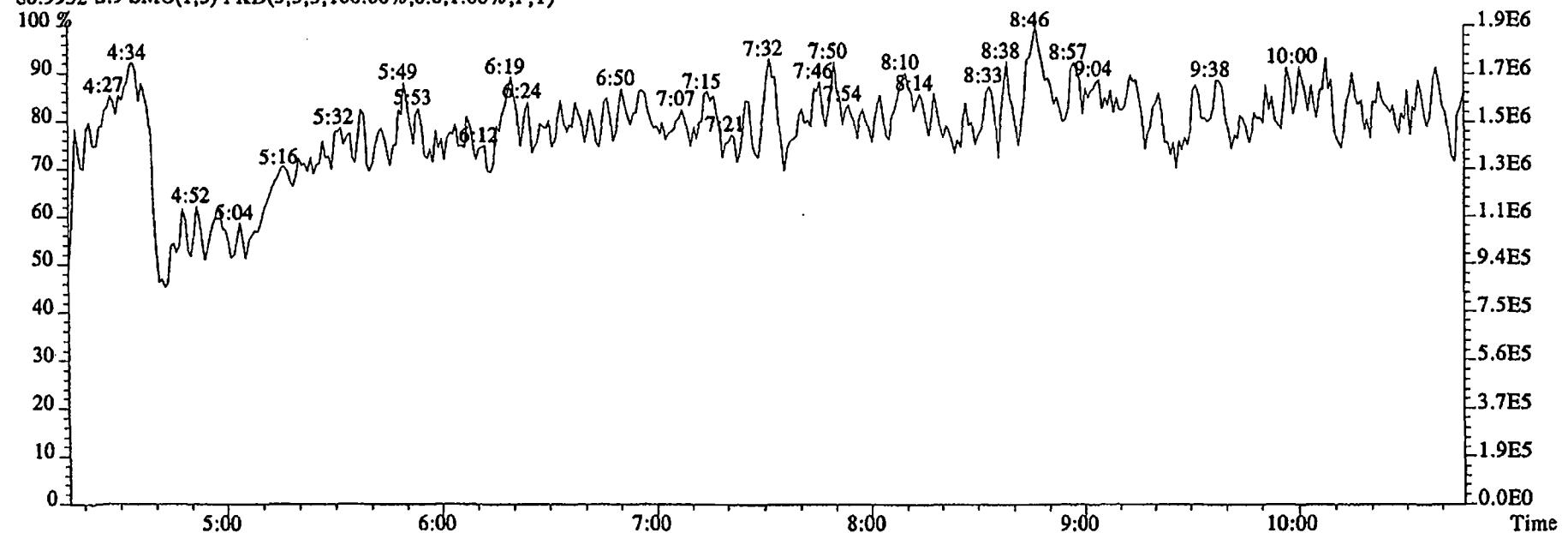
115.0003 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36268.0,1.00%,F,T)



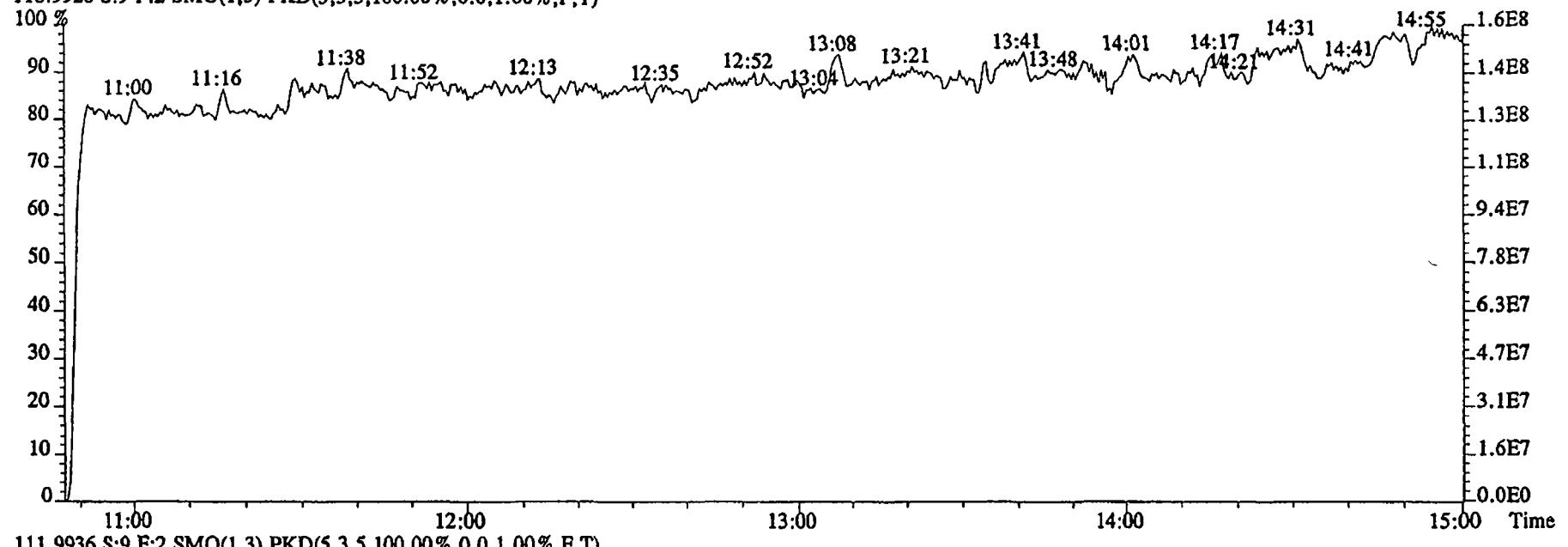
File:10DE045SP #1-481 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G :CS3 2350-68C Exp:NDMAVOA
68.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



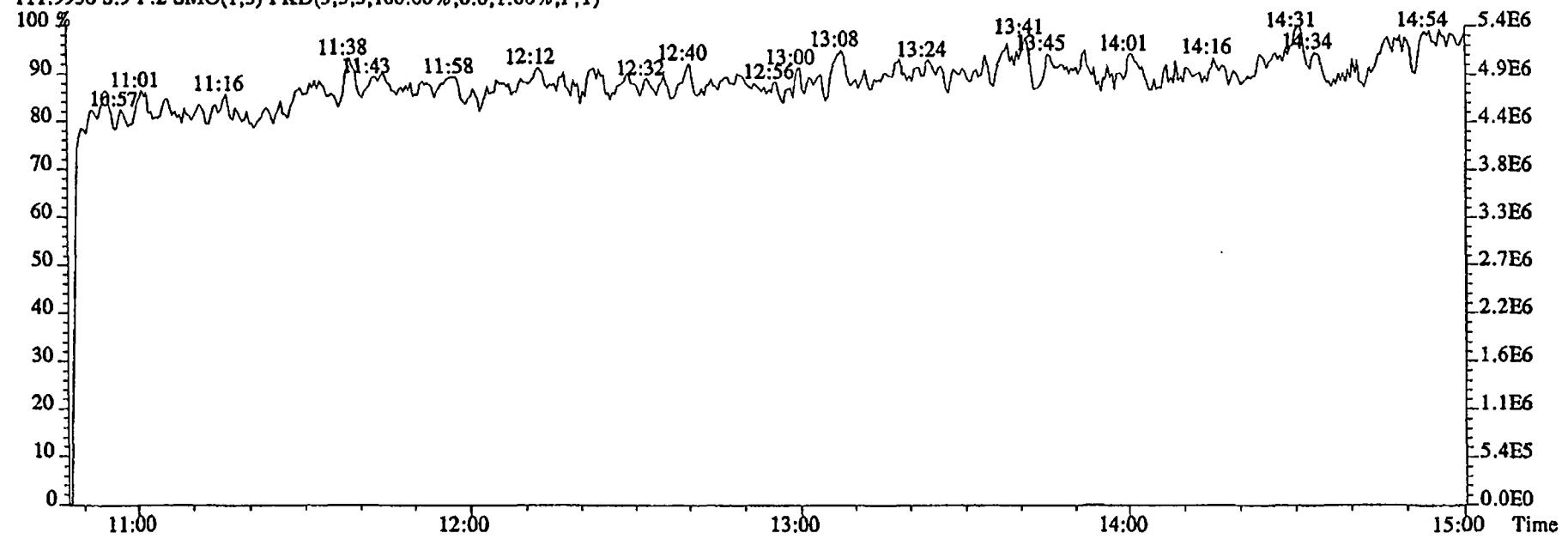
80.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



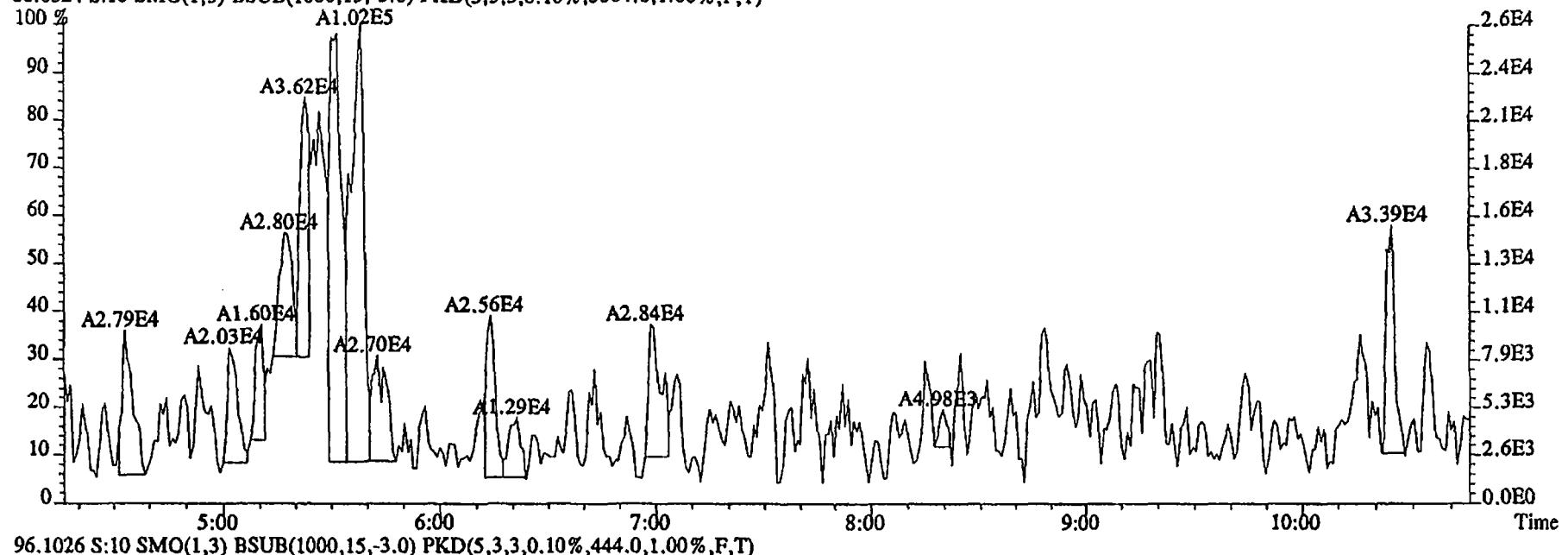
File:10DE045SP #1-590 Acq:10-DEC-2004 19:42:18 GC EI+ Voltage SIR 70SE
Sample#9 Text:ST1210G :CS3 2350-68C Exp:NDMAVOA
118.9920 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



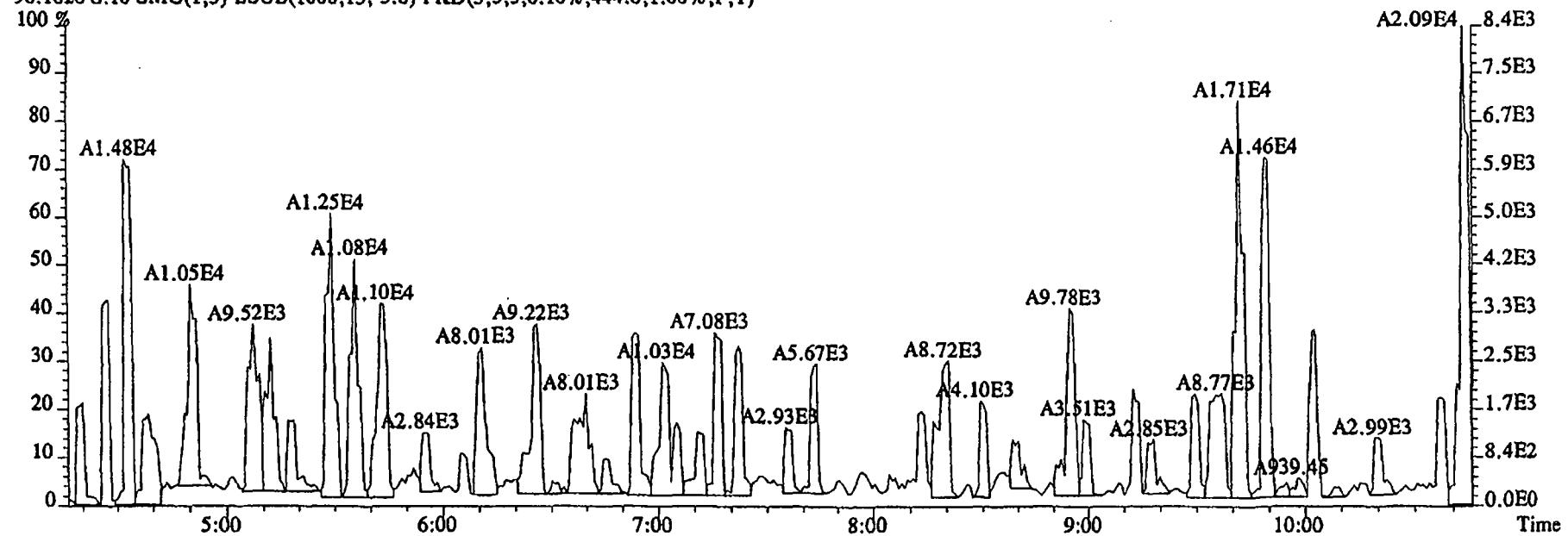
111.9936 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:10DE045SP #1-480 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE
 Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA
 88.0524 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5064.0,1.00%,F,T)



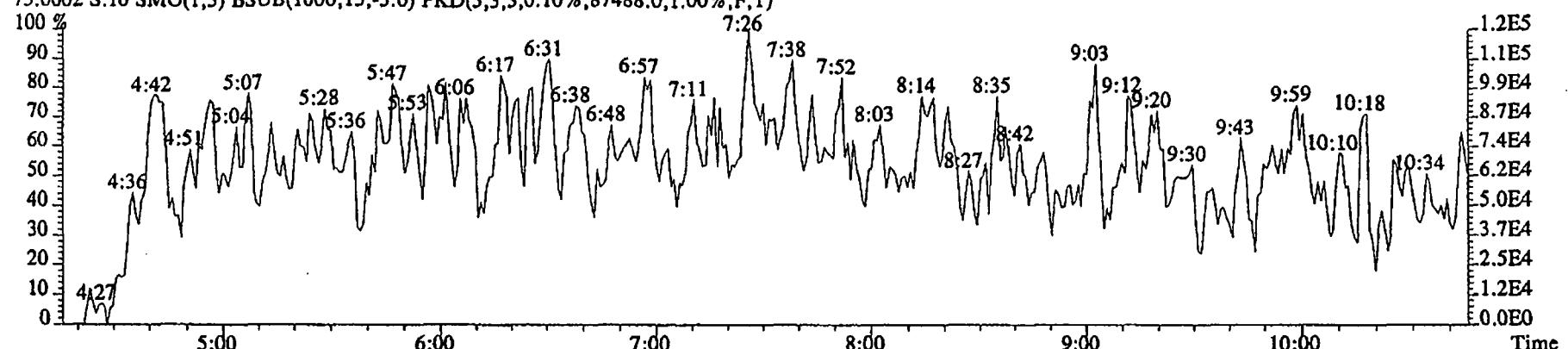
96.1026 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444.0,1.00%,F,T)



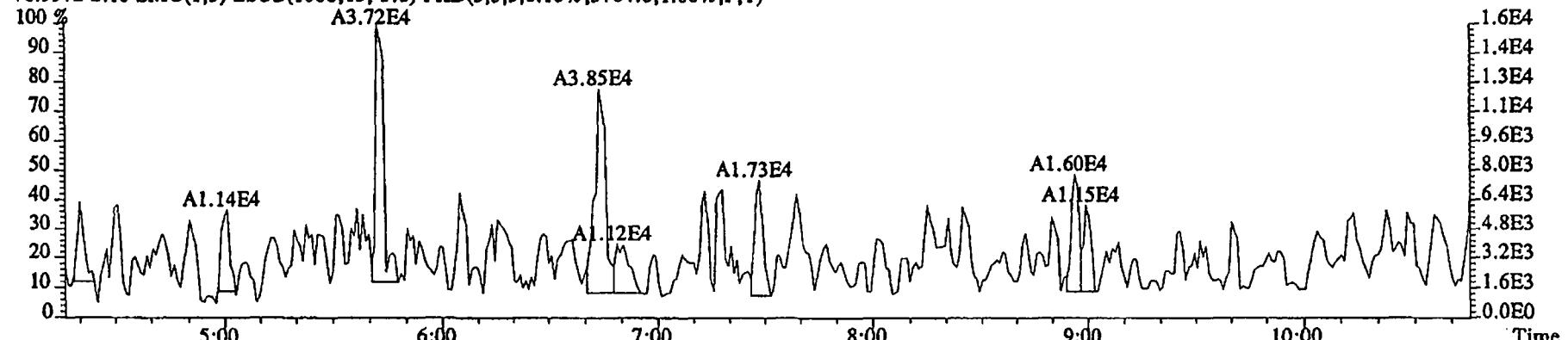
File:10DE045SP #1-480 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE

Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA

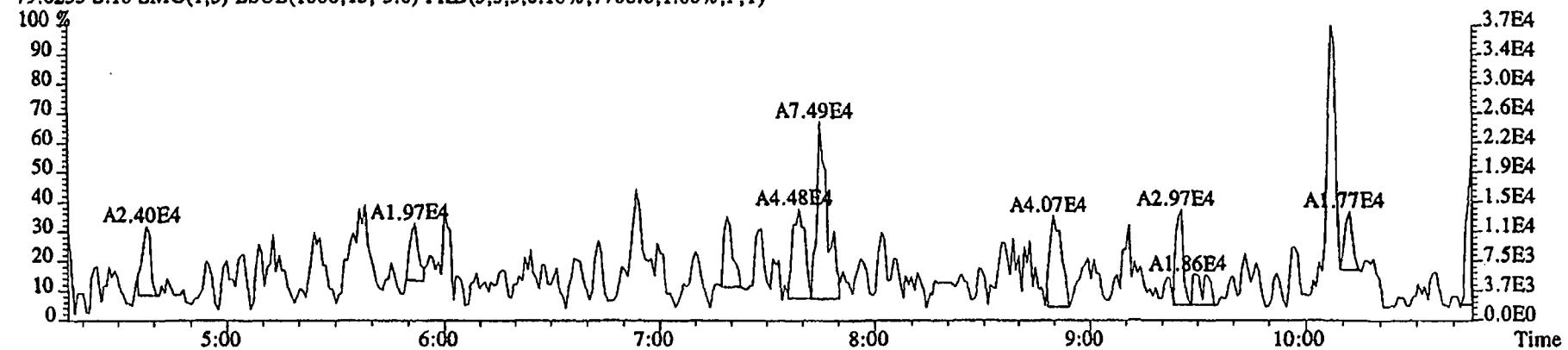
75.0002 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,87488.0,1.00%,F,T)



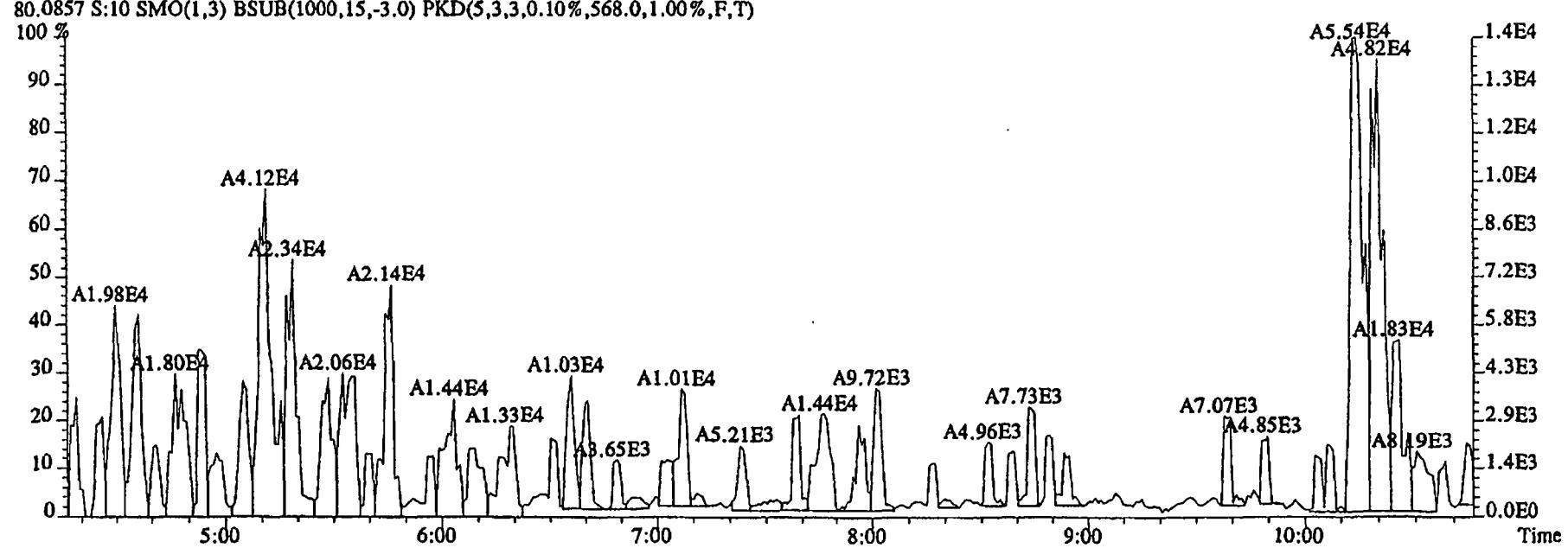
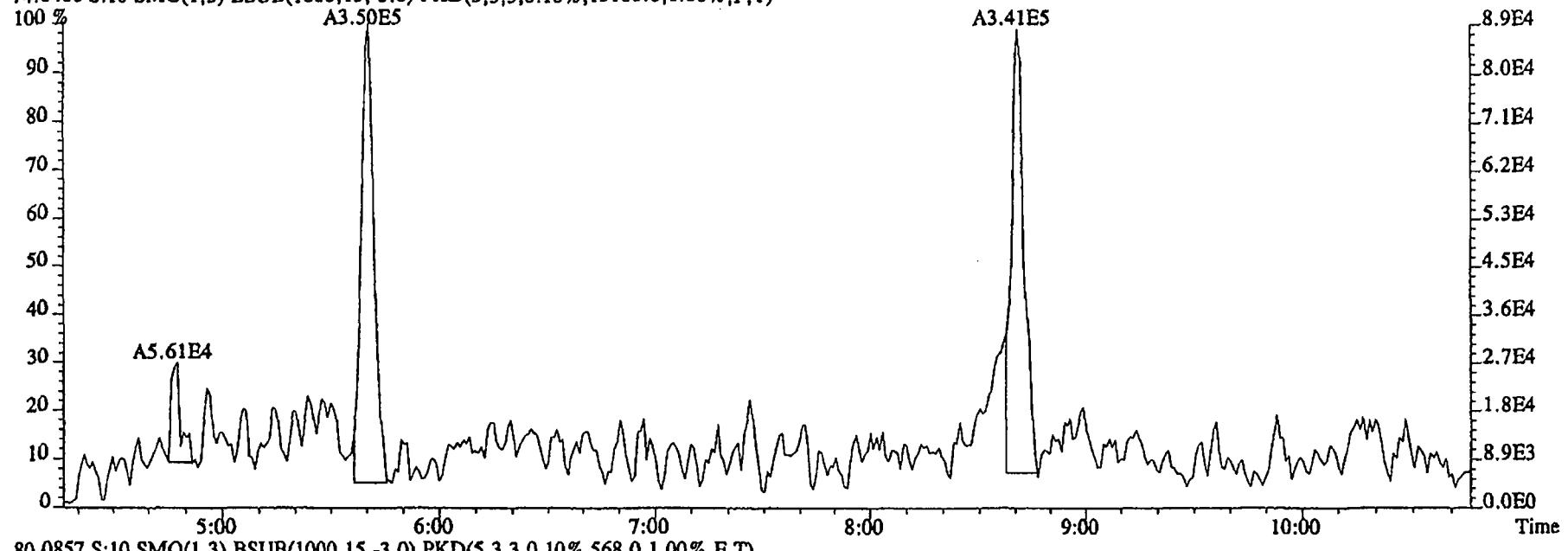
76.9972 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3764.0,1.00%,F,T)



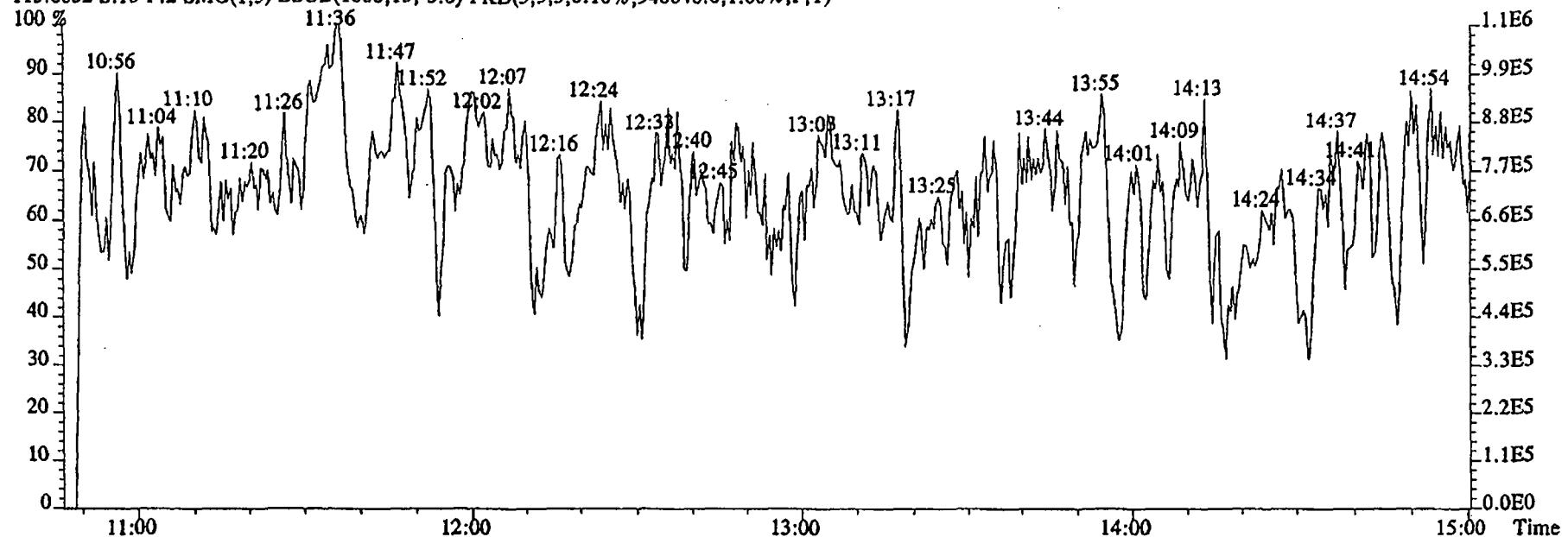
79.0253 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7708.0,1.00%,F,T)



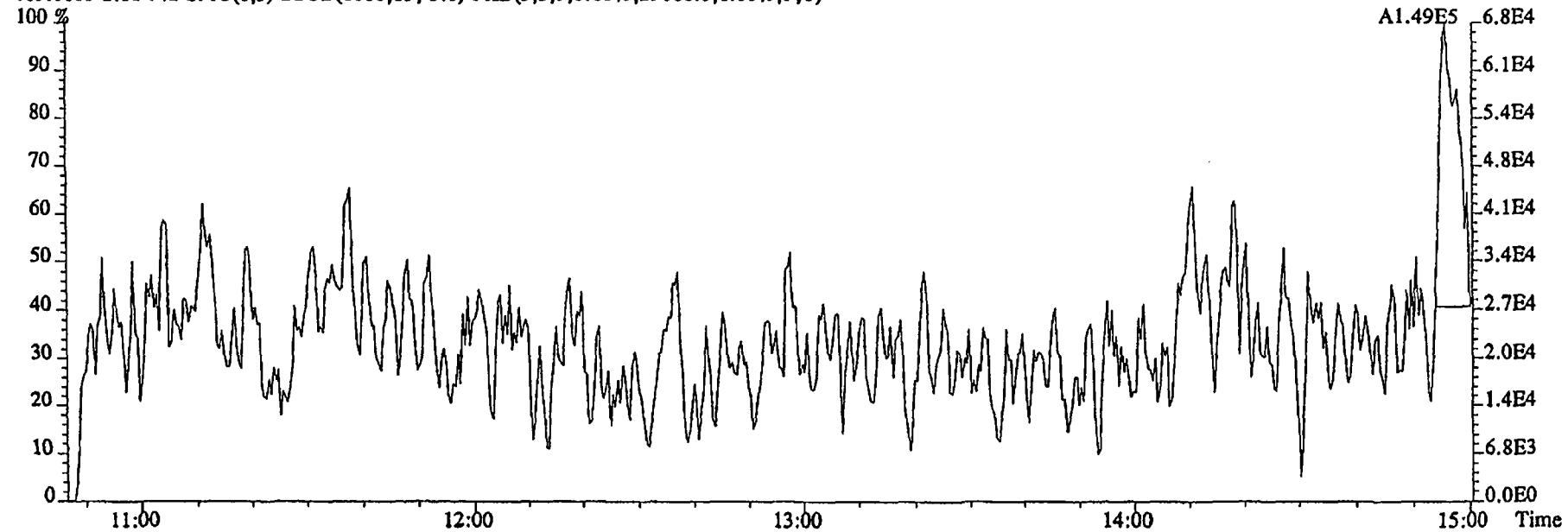
File:10DE045SP #1-480 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE
 Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA
 74.0480 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13100.0,1.00%,F,T)



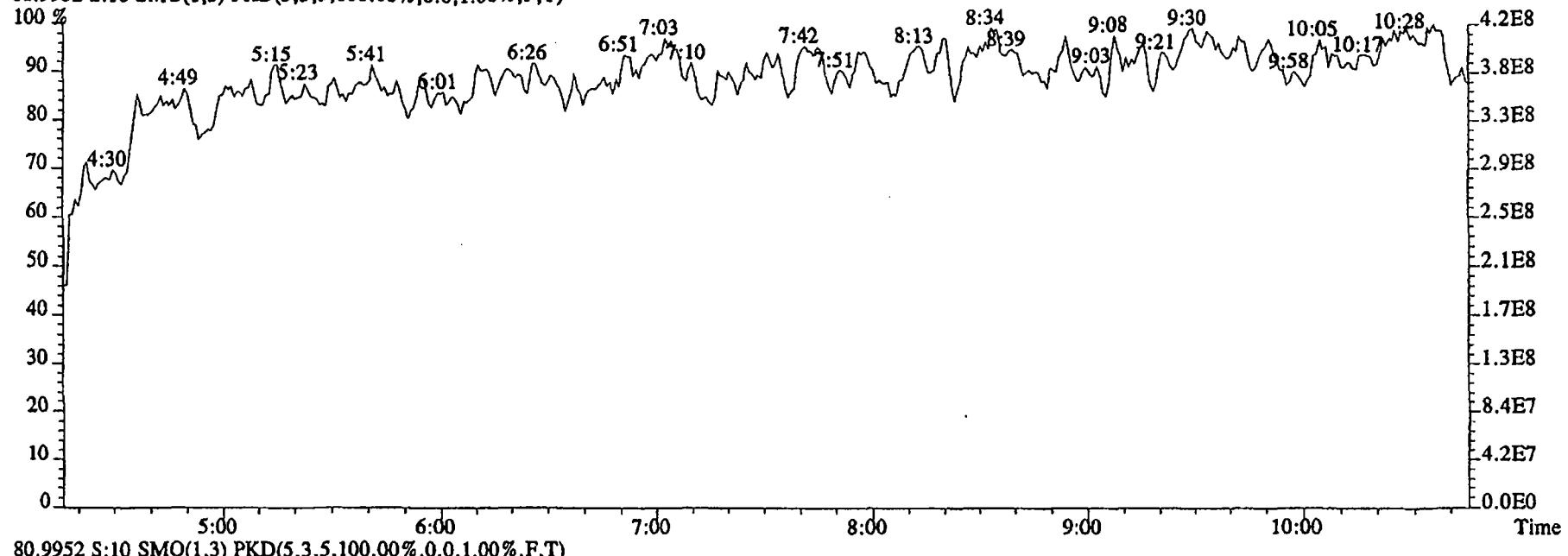
File:10DE045SP #1-592 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE
 Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA
 113.0032 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,940648.0,1.00%,F,T)



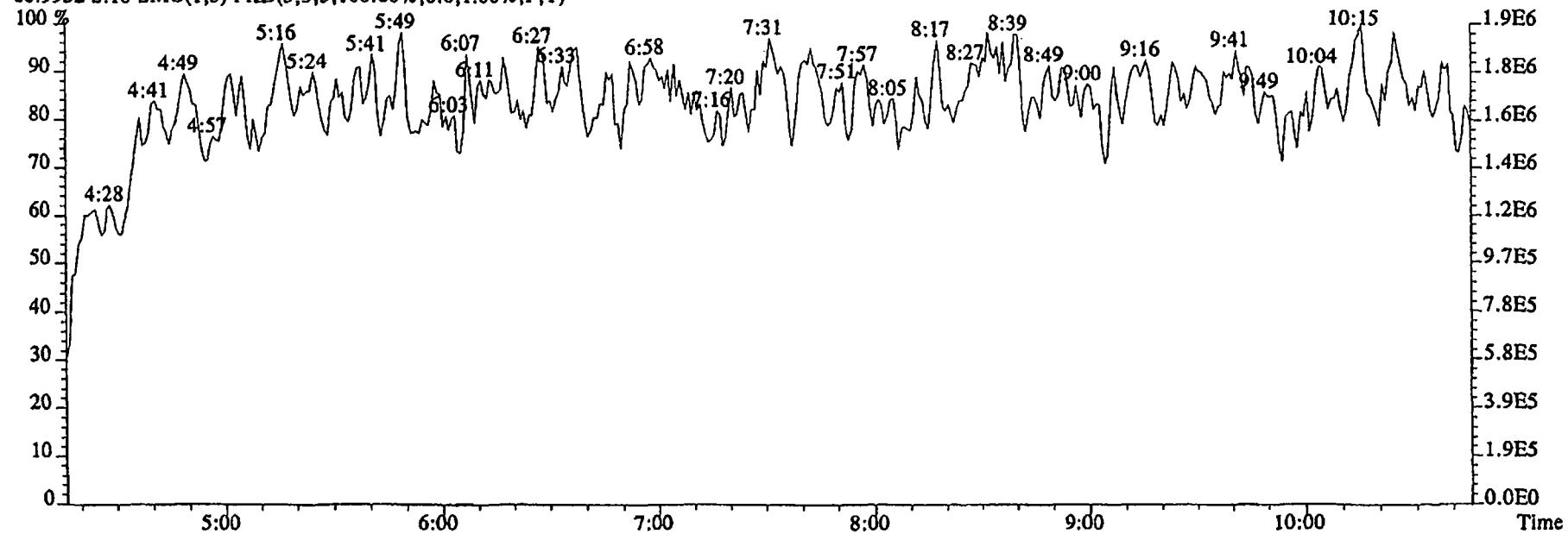
115.0003 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,29068.0,1.00%,F,T)



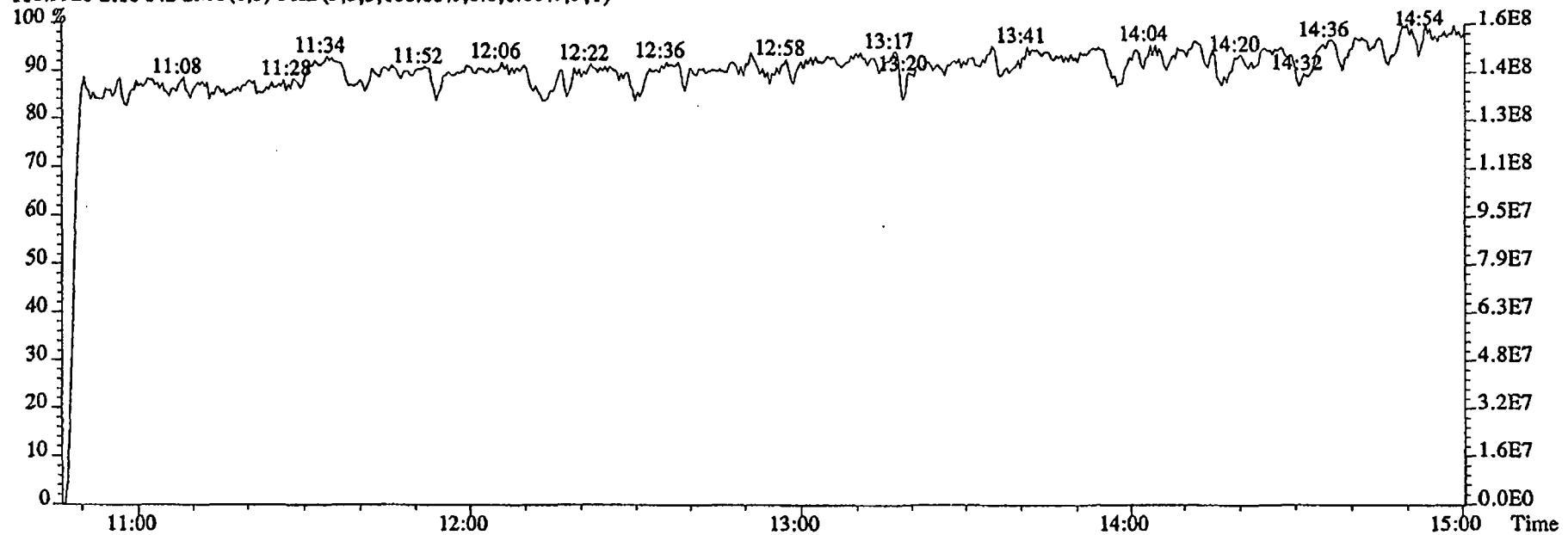
File:10DE045SP #1-480 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE
Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA
68.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



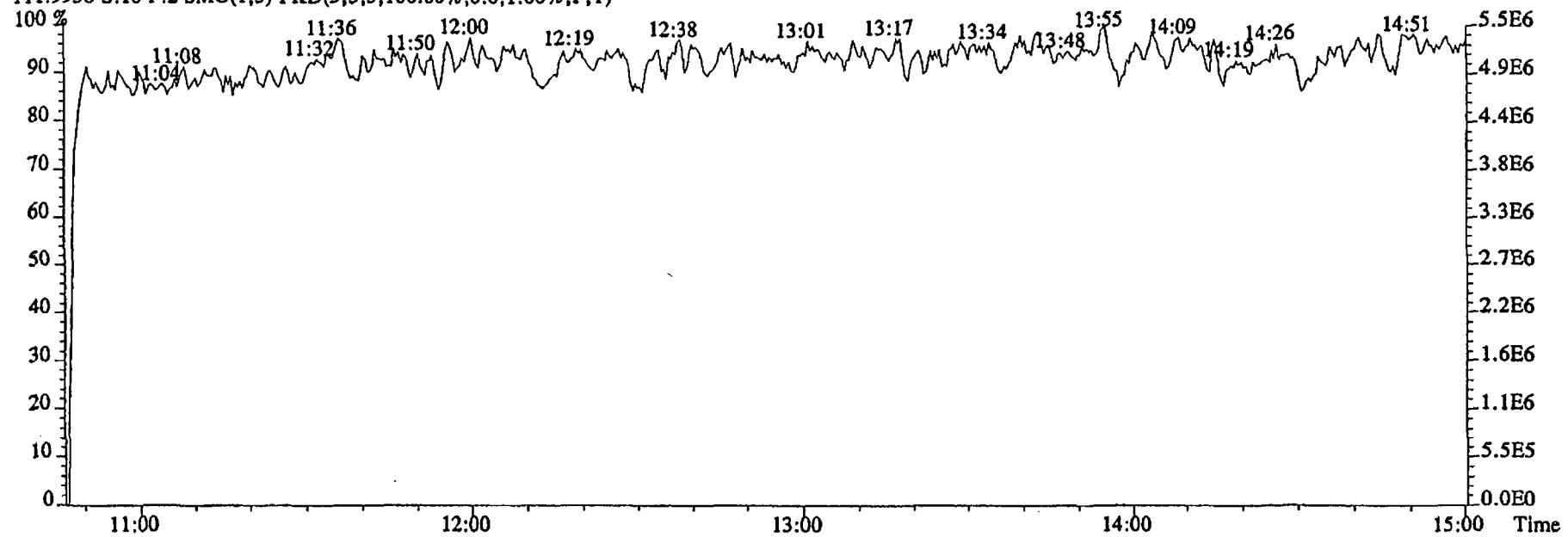
80.9952 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:10DE045SP #1-592 Acq:10-DEC-2004 20:02:43 GC EI+ Voltage SIR 70SE
Sample#10 Text:SB1210A :Solvent Blank DCM Exp:NDMAVOA
118.9920 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:10 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Daily Standard Checklist
High Resolution

Method ID 1625
 Column ID SP-2331
 STD ID ST1208F
 Analyzed By AM
 Prepared By KAS
 Reviewed By C.ichell

Associated ICAL 162512080455P
 Instrument ID 55P
 STD Solution 2350-68C
 Date Analyzed 12/8/04
 Date Prepared 12/12/04
 Date Reviewed 12-14-04

ANALYSIS OF CCAL	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	/	
Copy of log-file and Static Resolution present?	/	/
CPSM blow up present?	N/A	N/A
Curve Summary present?	/	/
Summary of Method criteria present?	N/A	N/A
Daily standard within method specified limits?*	/	/
Analyte retention times correct?	/	/
Isotopic ratios within limits?	N/A	N/A
CPSM valley < method specified limits?**	N/A	N/A
Are chromatographic windows correct?	/	/
Samples analyzed within 12 hrs of daily standard?		/
Manual reintegration's checked and hardcopies included?	N/A	N/A
Ending Standard and ending Static Resolutions present	N/A	N/A

COMMENTS:

* Method 8290: (beginning) +/- 20% from curve RRFs for native analytes, +/- 30% from curve RRFs for labeled compounds.
 Method 8290: (ending) +/- 25% from curve RRFs for native analytes, +/- 35% from curve RRFs for labeled compounds.
 Method 8290 (GB): +/- 30% from curve RRFs for native analytes.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613A/1613B: See Method 1613A, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
 PAH: +/- 30% from curve RRFs for native and labeled compounds.

PCB: +/- 30% from curve RRFs for native and 50% for labeled compounds.

NCASI 551: +/-20% from curve RRFs for native and labeled compounds.

DBD/DBF: +/-30% from curve RRFs for native analytes; +/- 40% from curve RRFs for labeled compounds.

** Method 23 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and the closest eluters normalized at the smallest peak height of the three peaks (with the 2378 peak being the middle peak).

551/1613A/1613B/8290 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

GB CPSM Criteria: 30% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1208F
 Run #6 Filename 08DE045SP S: 8
 Acquired: 8-DEC-04 18:58:44
 Run: 08DE045SP Analyte: 1625

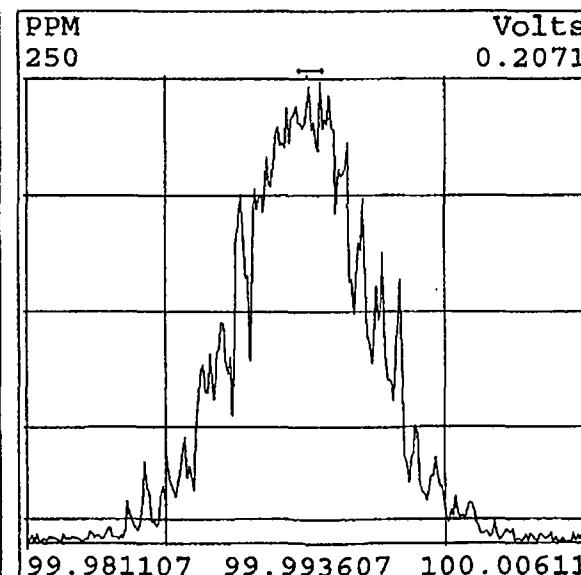
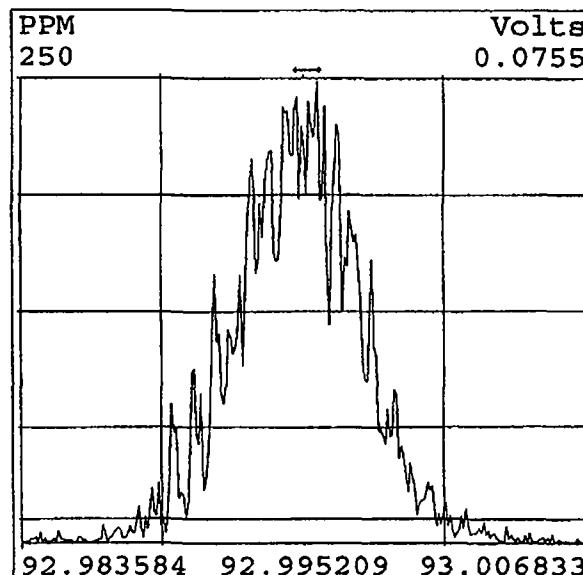
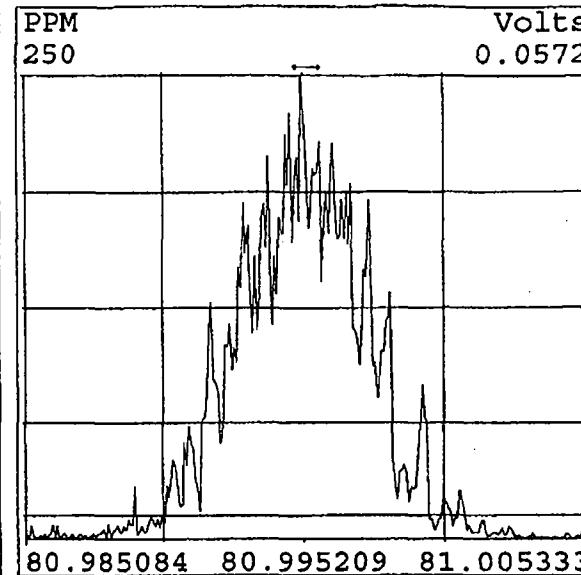
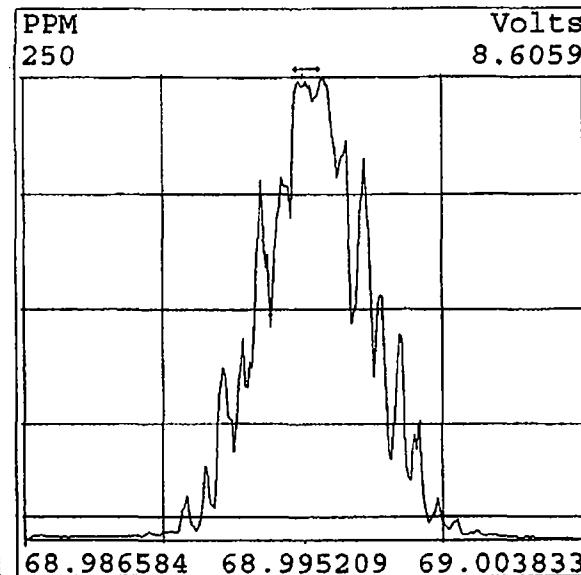
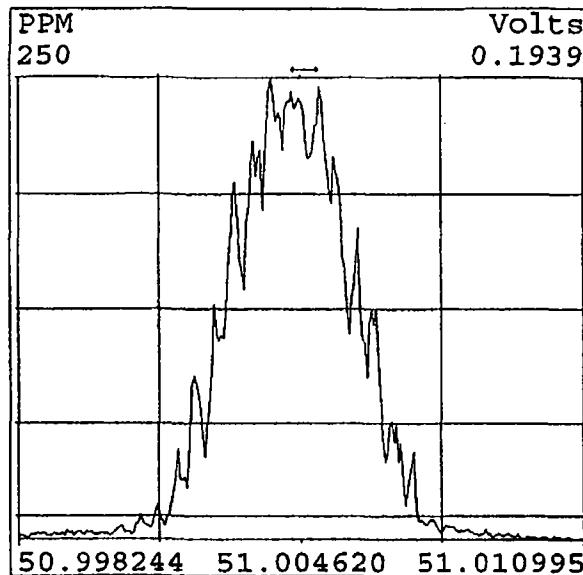
File text: ST1208F :CS3 2350-68C
 I: 1
 Processed: 8-DEC-04 19:18:14
 Cal: 16251208045SP Results: 08DE045SP1625

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
2-Chloropyridine	16308900		11:07	-	200.00	-	n
D8-1,4-Dioxane	73737500		5:07	0.90	1000.00	-2.2	n
1,4-Dioxane	3876880		5:07	1.05	50.00	-6.5	n
D5-123-TriChloroPropane	19201600		10:03	2.35	100.00	-6.7	n
1,2,3-TriChloroPropane	4900220		10:07	0.51	50.00	1.1	n
1,2,3-TriChloroPropane	16298200		10:07	-	50.00	-	n
D6-NDMA	11665000		10:13	1.43	100.00	2.1	n
NDMA	9789070		10:13	1.68	50.00	-4.5	n
2-Chloropyridine	51000800		11:07	-	200.00	-	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
08DE045SP	1	ST1208	CS1 2350-68A				1.000	
08DE045SP	2	ST1208A	CS2 2350-68B				1.000	
08DE045SP	3	ST1208B	CS3 2350-68C				1.000	
08DE045SP	4	ST1208C	CS3 2350-68C				1.000	
08DE045SP	5	ST1208D	CS4 2350-68D				1.000	
08DE045SP	6	ST1208E	CS5 2350-68E				1.000	
08DE045SP	7	SB1208	Solvent Blank DCM				1.000	
08DE045SP	8	ST1208F	CS3 2350-68C				1.000	
08DE045SP	9	SB1208A	Solvent Blank DCM				1.000	
08DE045SP	10	G0FX0-1-AAB	G4L040125-1MB	500	1625/WATER	VS52	1.000	L
08DE045SP	11	G0FX0-1-ACC	G4L040125-1LCS	500	1625/WATER		1.000	L
08DE045SP	12	G0FX0-1-ADL	G4L040125-1DCS	500	1625/WATER		1.000	L
08DE045SP	13	G0AGN-1-AC	G4L040125-1	500	1625/WATER		0.996	L
08DE045SP	14	G0AGR-1-AC	G4L040125-2	500	1625/WATER		0.979	L
08DE045SP	15	G0AGV-1-AC	G4L040125-3	500	1625/WATER		0.973	L
08DE045SP	16	G0AVX-1-AC	G4L040125-4	500	1625/WATER		0.972	L
08DE045SP	17	G0A8Q-1-AE	G4L040211-30	500	1625/WATER		0.970	L
08DE045SP	18	GX97M-1-AA	G4L030417-1	500	1625/WATER		0.969	L
08DE045SP	19	G0A6L-1-AC	G4L040206-1	500	1625/WATER		0.986	L
08DE045SP	20	SB1208B	Solvent Blank DCM				1.000	
08DE045SP	21	ST1208G	CS3 2350-68C				1.000	
08DE045SP	22						1.000	
08DE045SP	23						1.000	
08DE045SP	24						1.000	
08DE045SP	25						1.000	
08DE045SP	26						1.000	
08DE045SP	27						1.000	
08DE045SP	28						1.000	
08DE045SP	29						1.000	
08DE045SP	30		AM 12-08-04				1.000	
08DE045SP	31						1.000	

Reviewed by
12/9/04

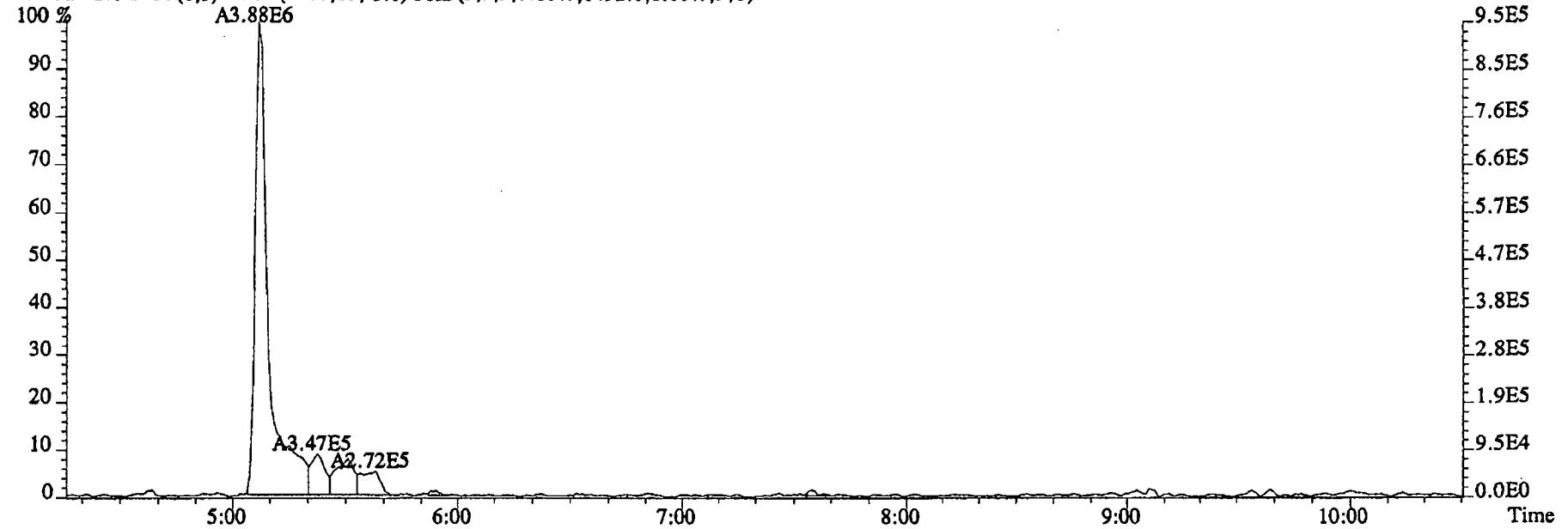
Peak Locate Examination: 8-DEC-2004:16:29 File:08DE045SP
Experiment:NDMAVOA Function:1 Reference:PFK



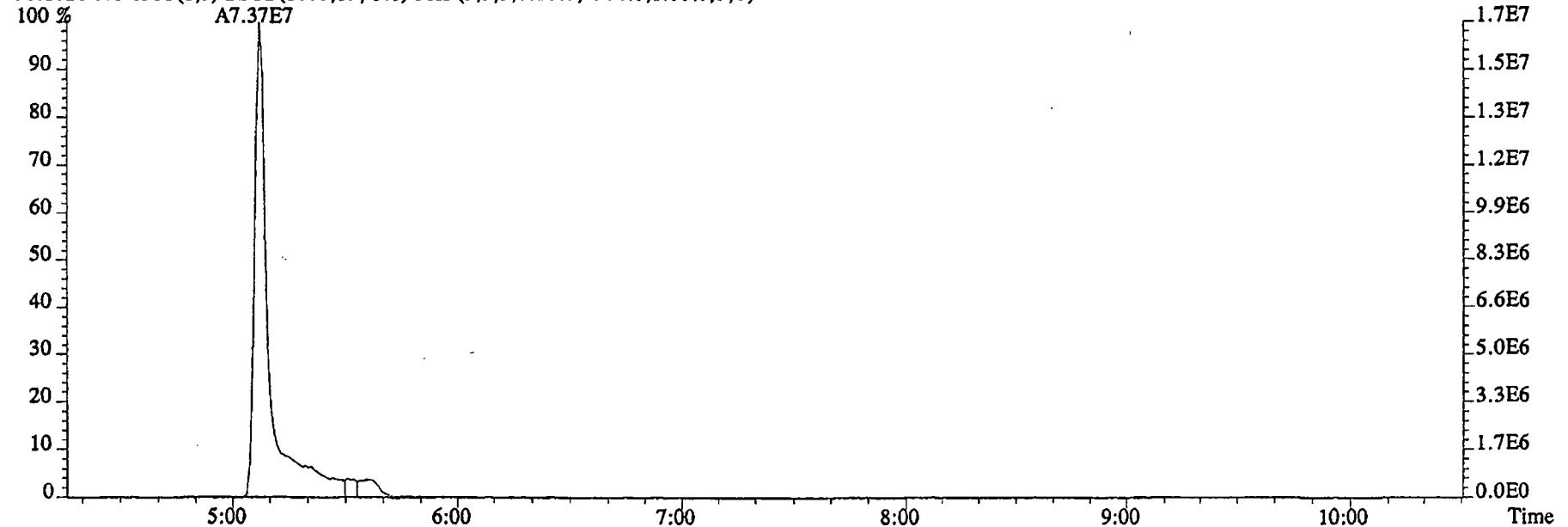
Run: 08DE045SP Analyte: 1625 Cal: 16251208045SP

ST1208 :CS1 2350-68A **ST1208A :CS2 2350-68B** **ST1208C :CS3 2350-68C**
ST1208D :CS4 2350-68D **ST1208E :CS5 2350-68E**

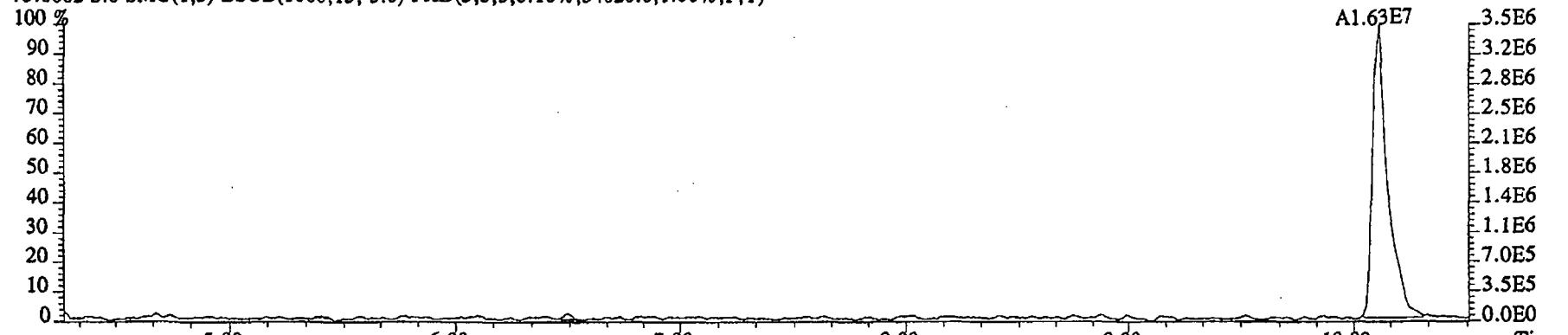
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1208F CS3 2350-68C Exp:NDMAVOA
88.0524 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6492.0,1.00%,F,T)



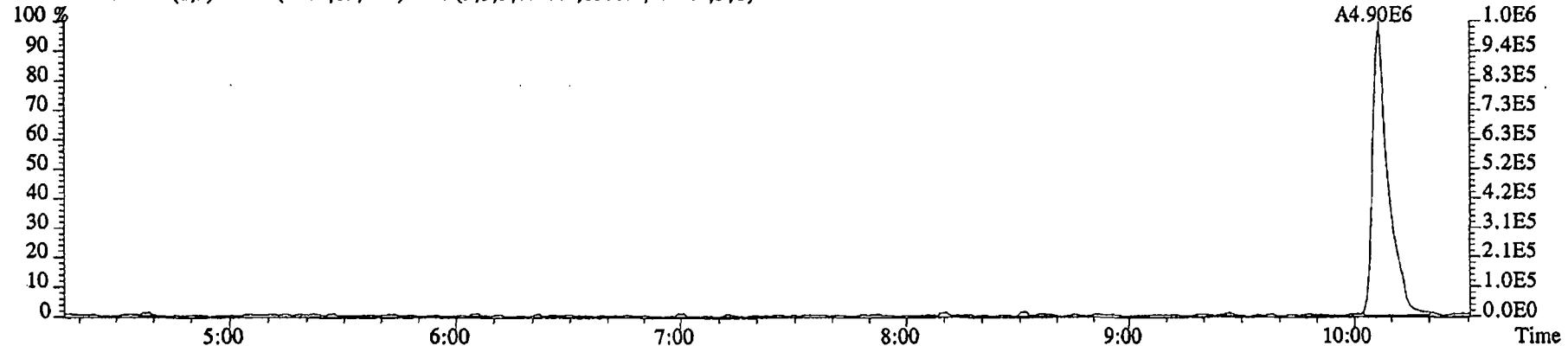
96.1026 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1972.0,1.00%,F,T)



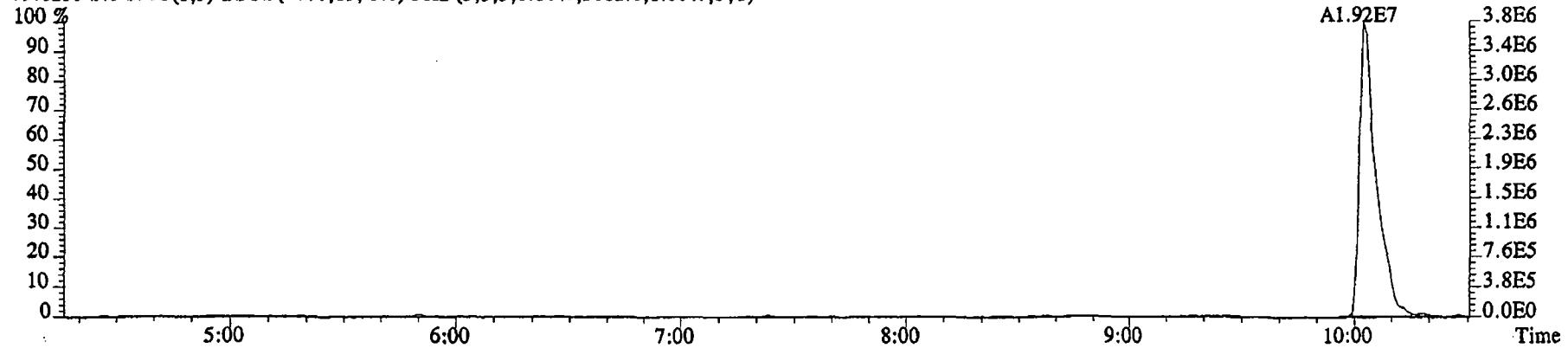
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1208F :CS3 2350-68C Exp:NDMAVOA
75.0002 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,54020.0,1.00%,F,T)



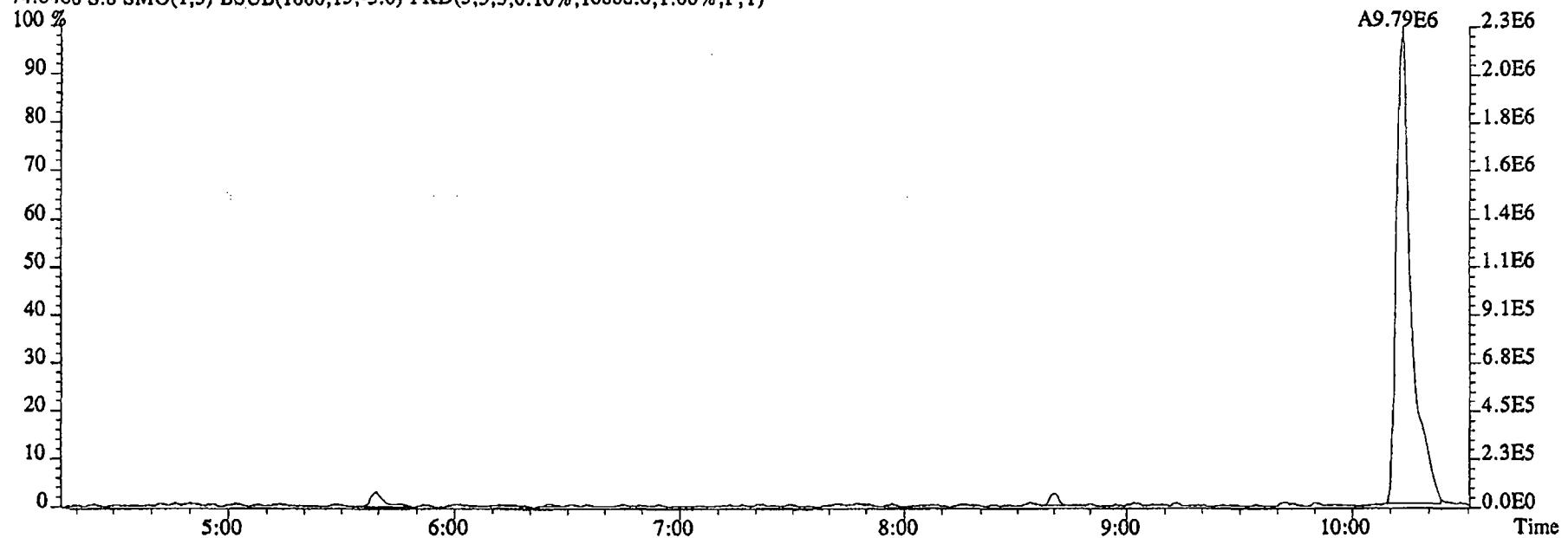
76.9972 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6308.0,1.00%,F,T)



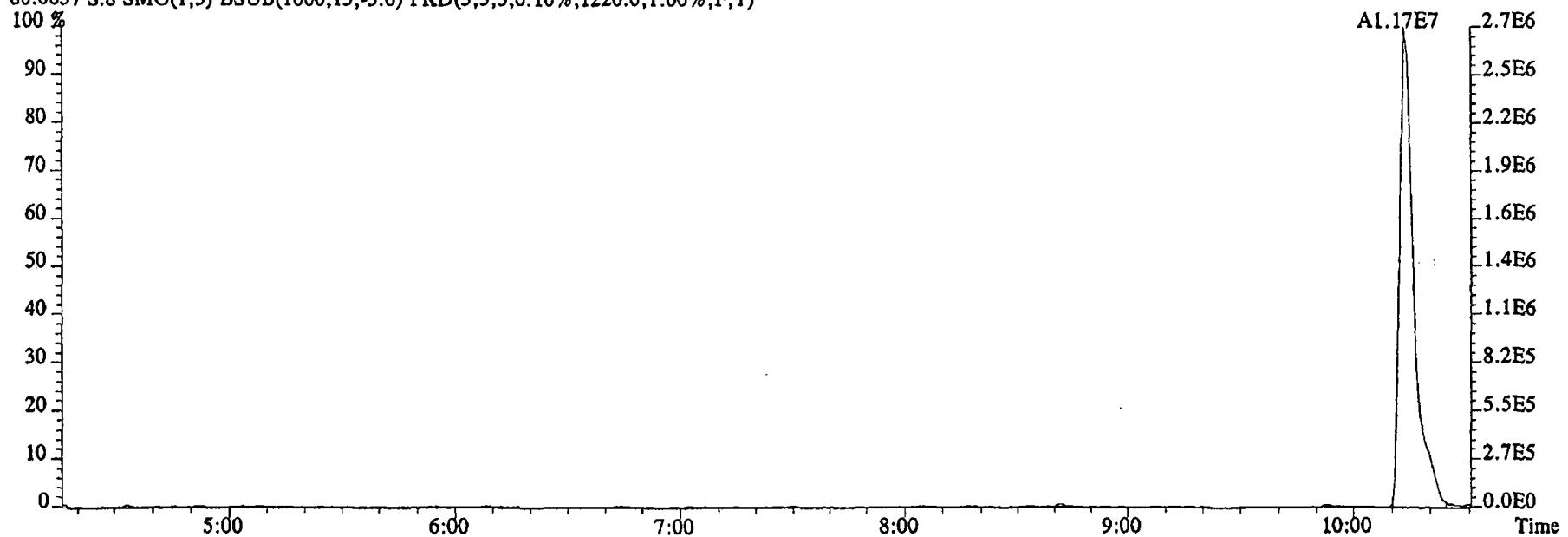
79.0253 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5012.0,1.00%,F,T)



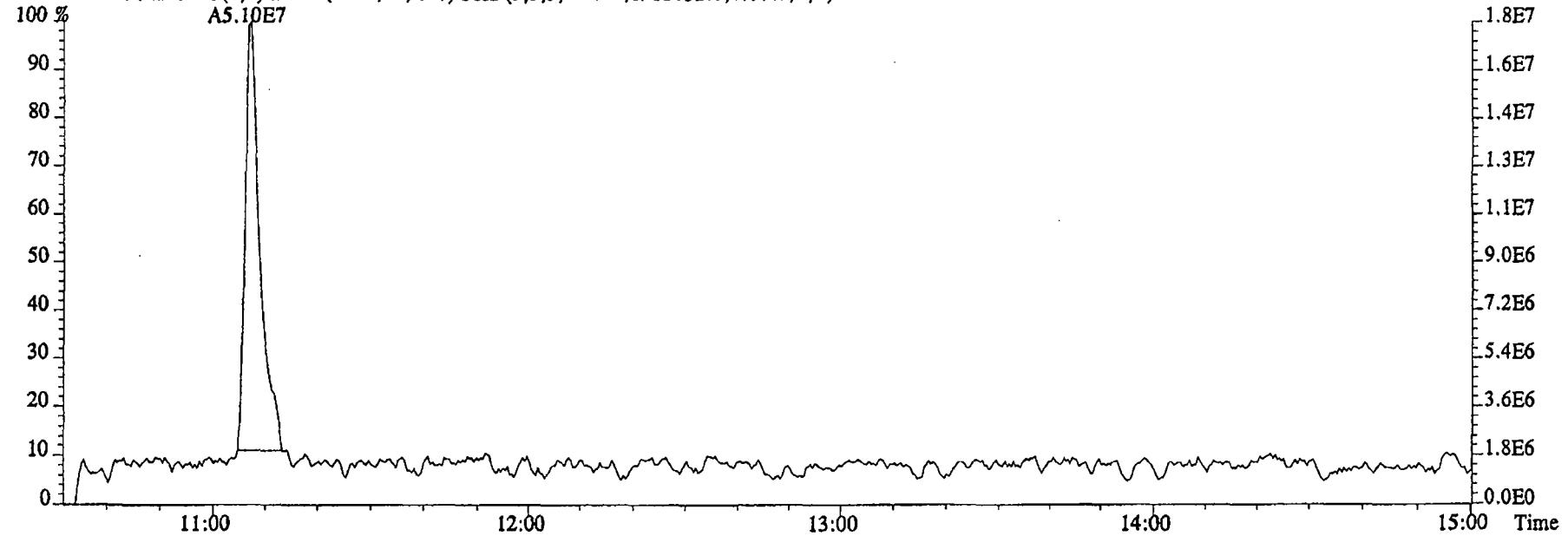
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1208F :CS3 2350-68C Exp:NDMAVOA
74.0480 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16888.0,1.00%,F,T)



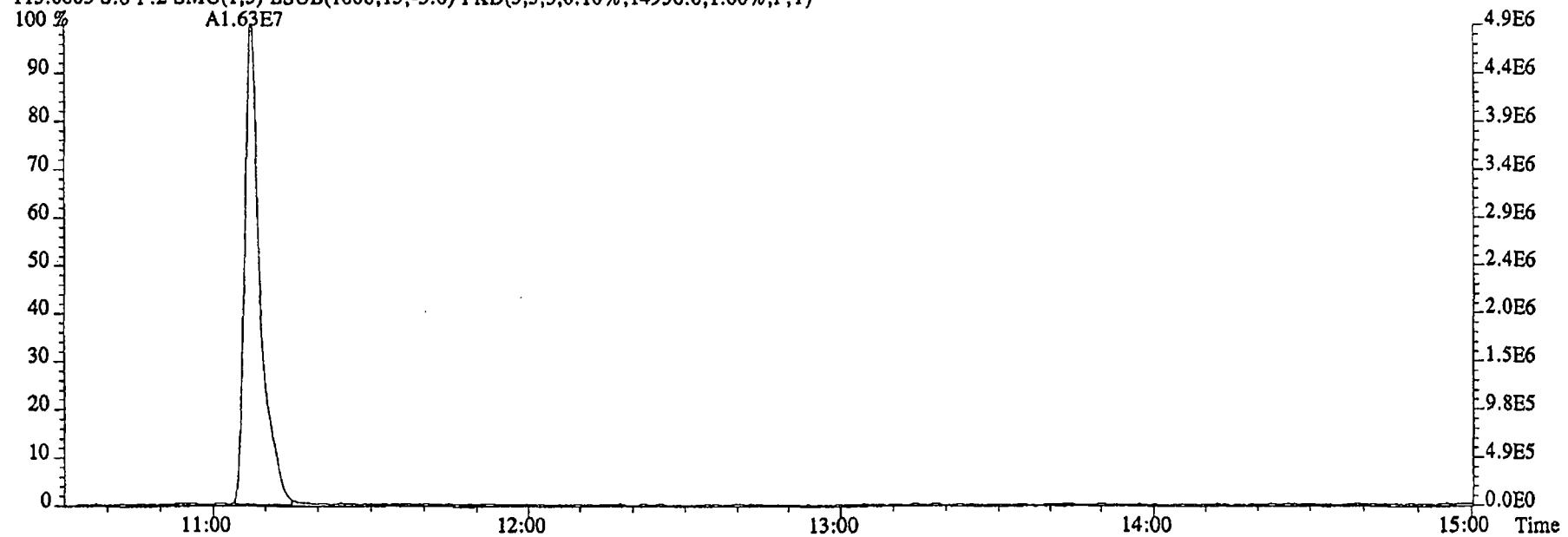
80.0857 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1220.0,1.00%,F,T)



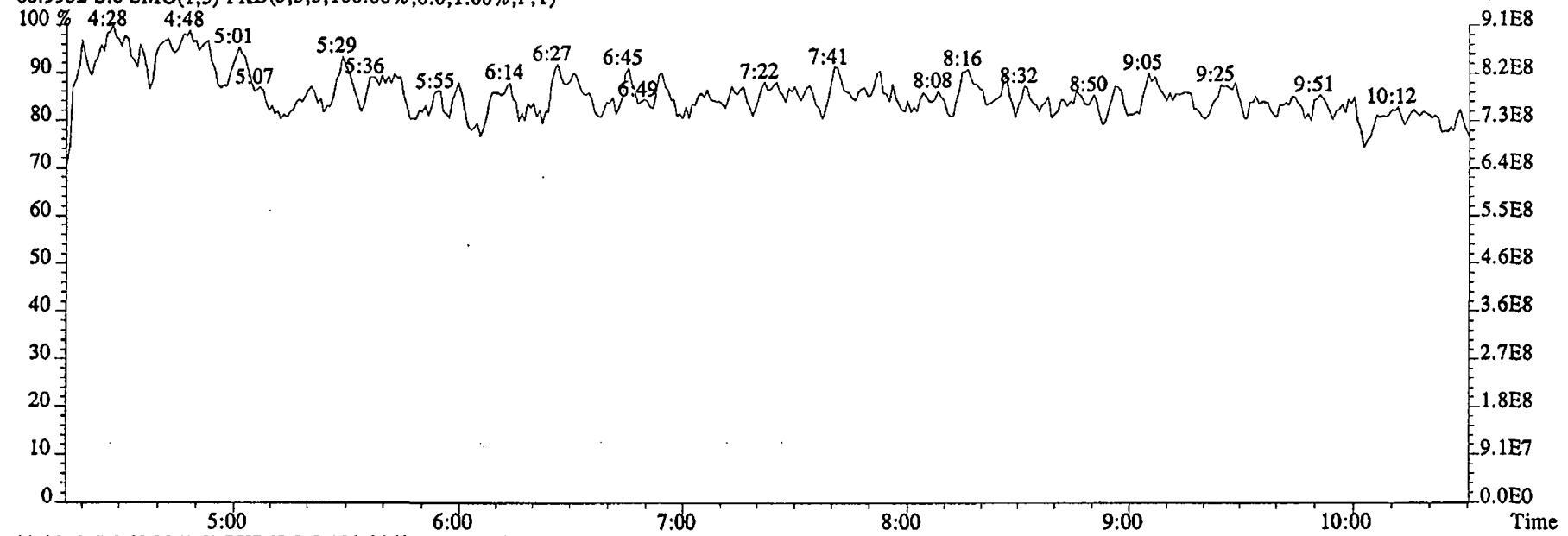
File:08DE045SP #1-626 Acq: 8-DEC-2004 18:58:44 GC El+ Voltage SIR 70SE
Sample#8 Text:ST1208F :CS3 2350-68C Exp:NDMAVOA
113.0032 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1911632.0,1.00%,F,T)



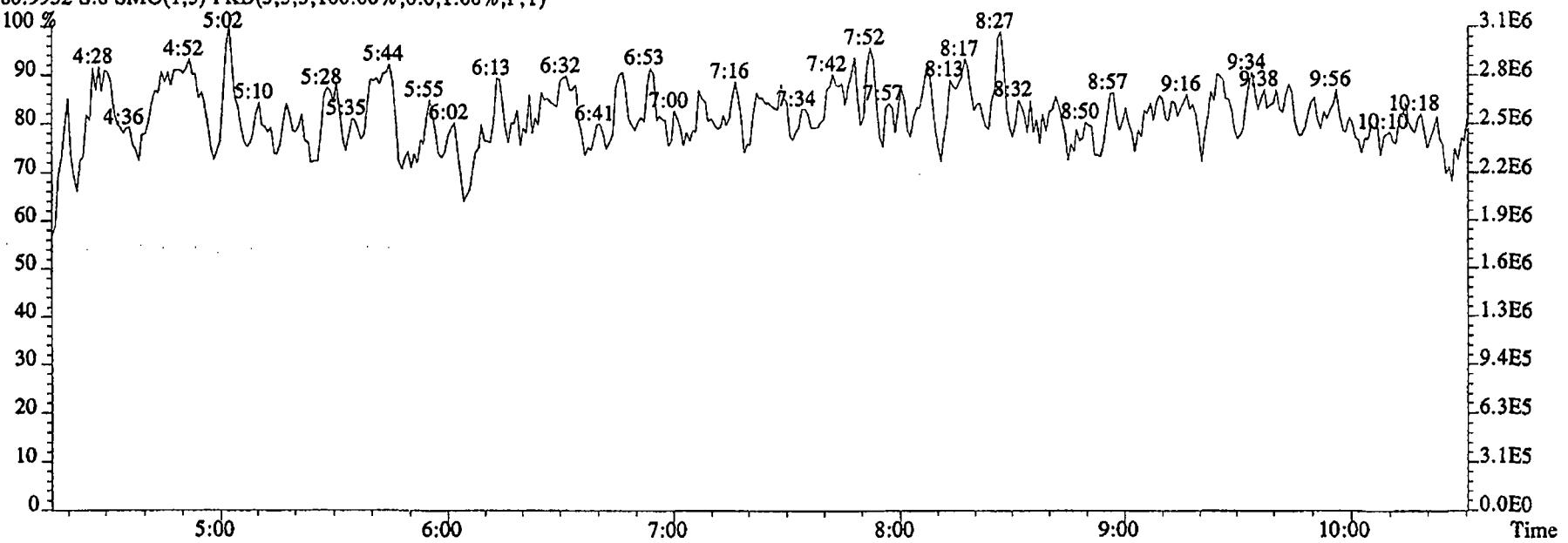
115.0003 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14936.0,1.00%,F,T)



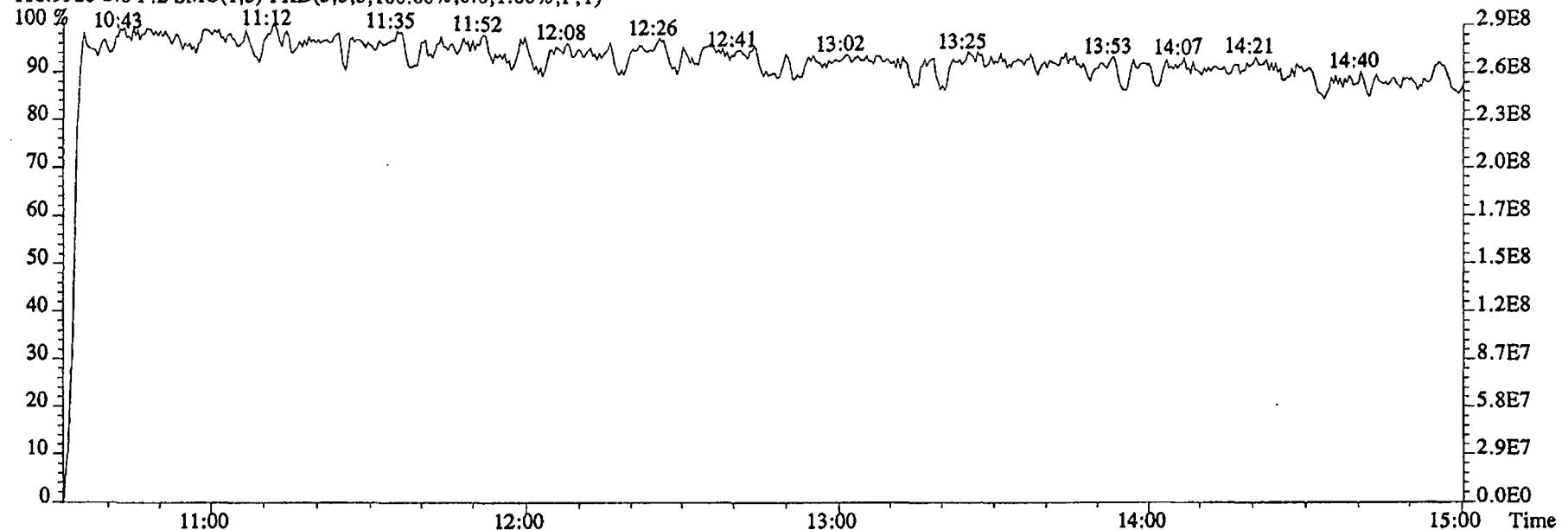
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1208F :CS3 2350-68C Exp:NDMAVOA
68.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



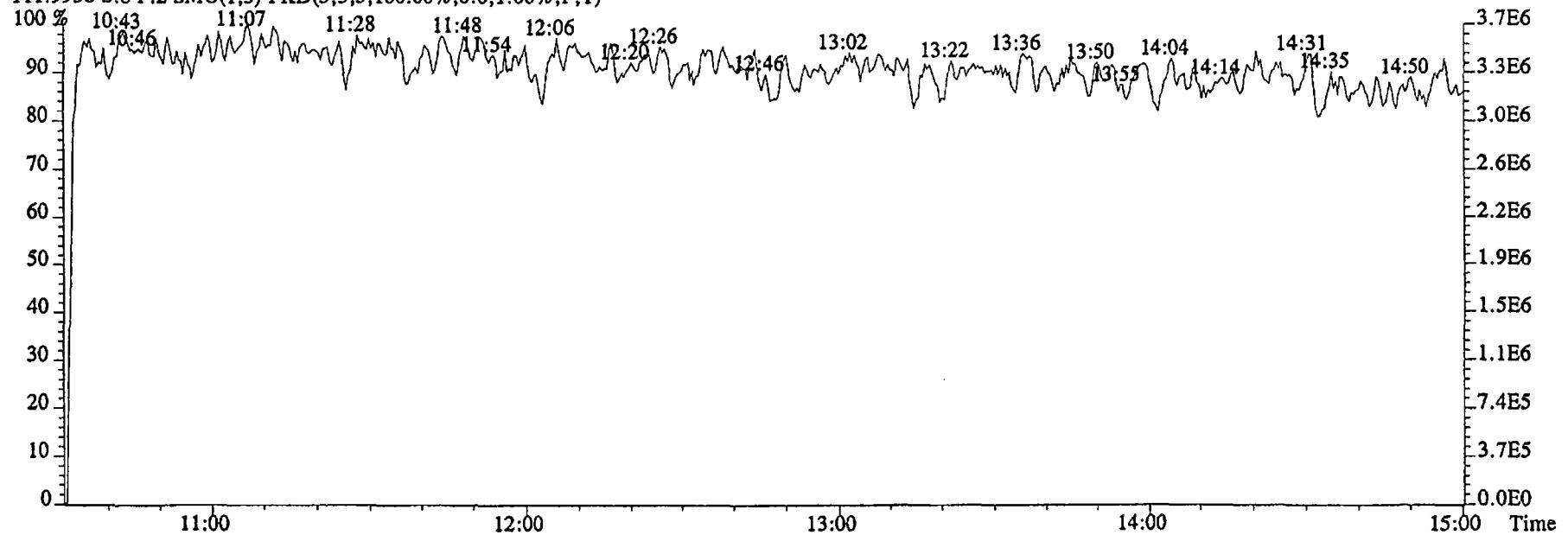
80.9952 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



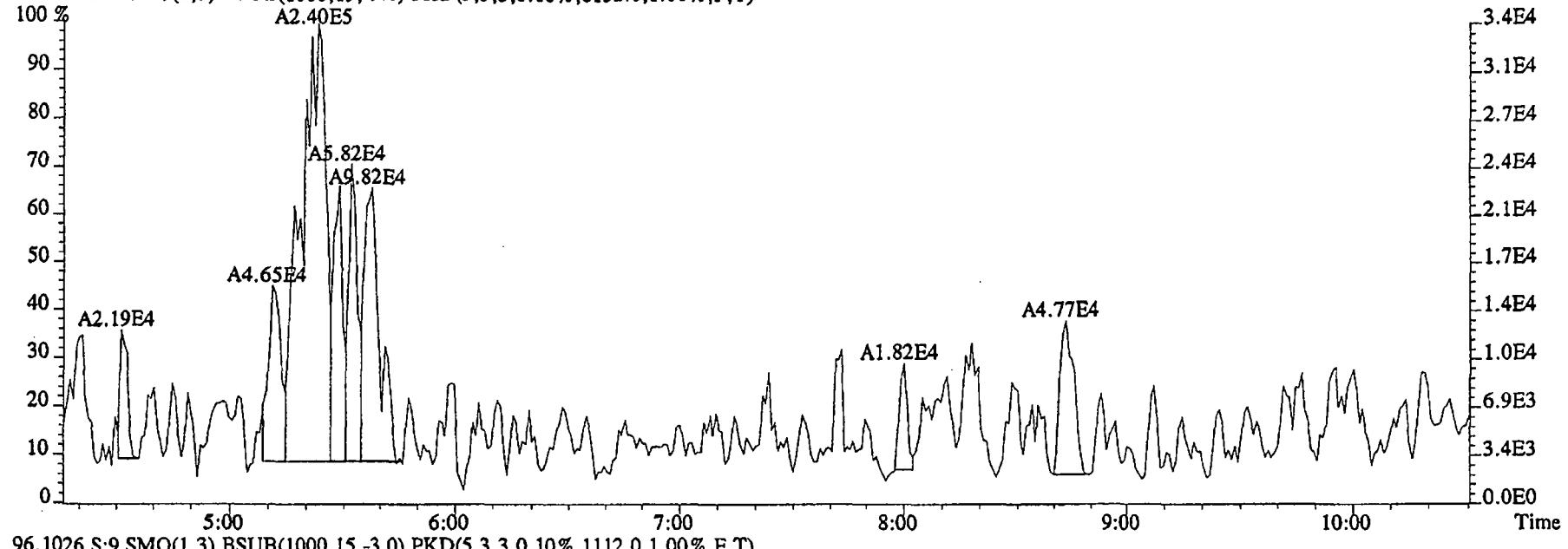
File:08DE045SP #1-626 Acq: 8-DEC-2004 18:58:44 GC EI+ Voltage SIR 70SE
Sample#8 Text:ST1208F :CS3 2350-68C Exp:NDMAVOA
118.9920 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



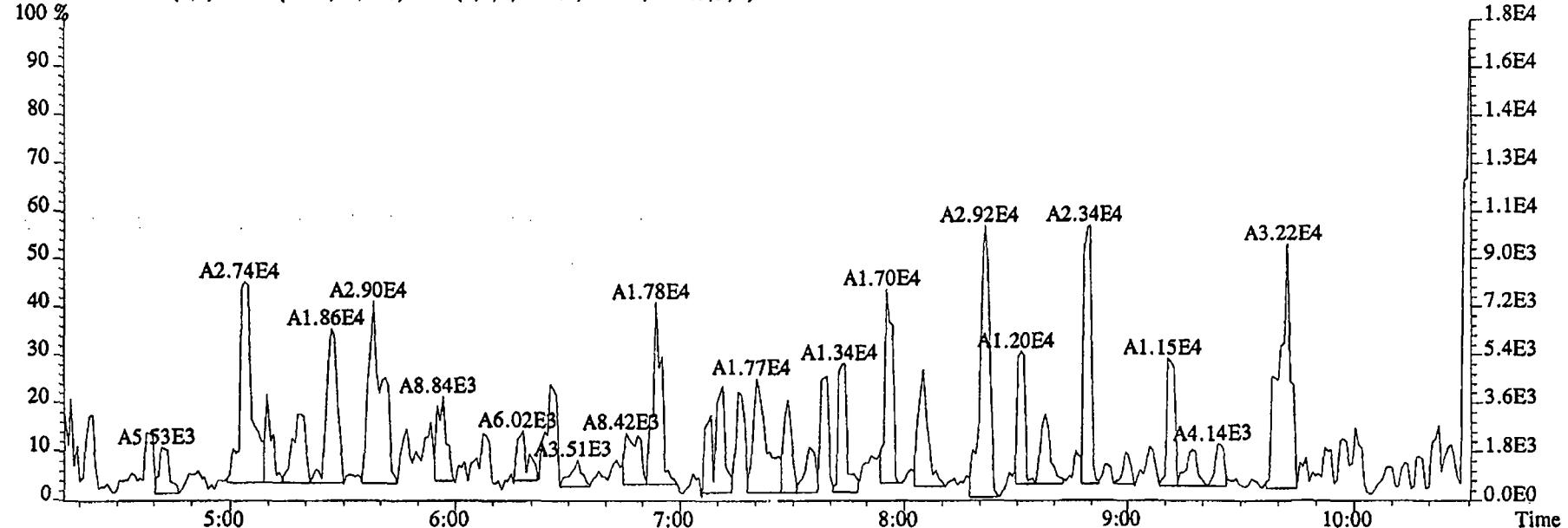
111.9936 S:8 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



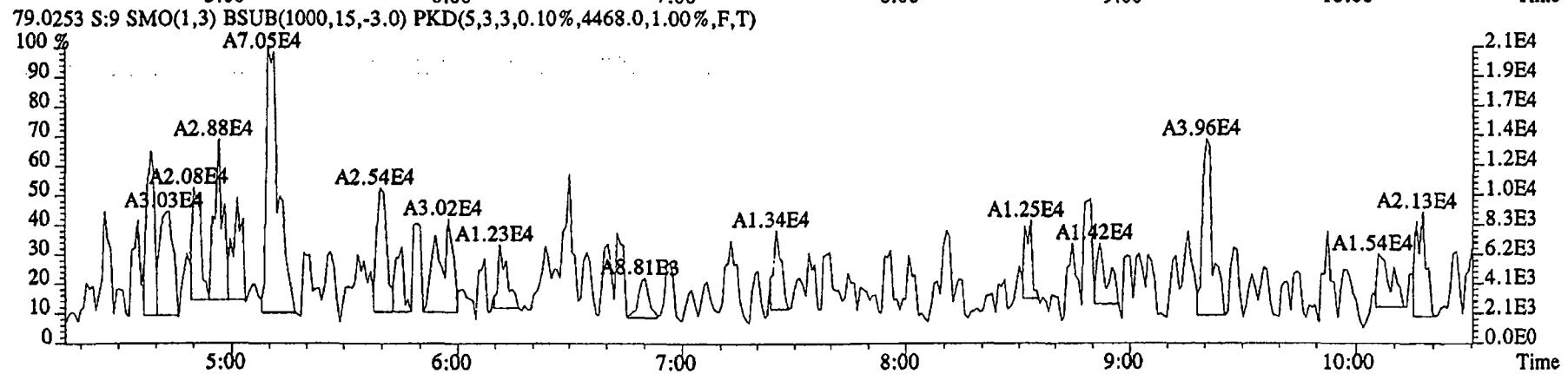
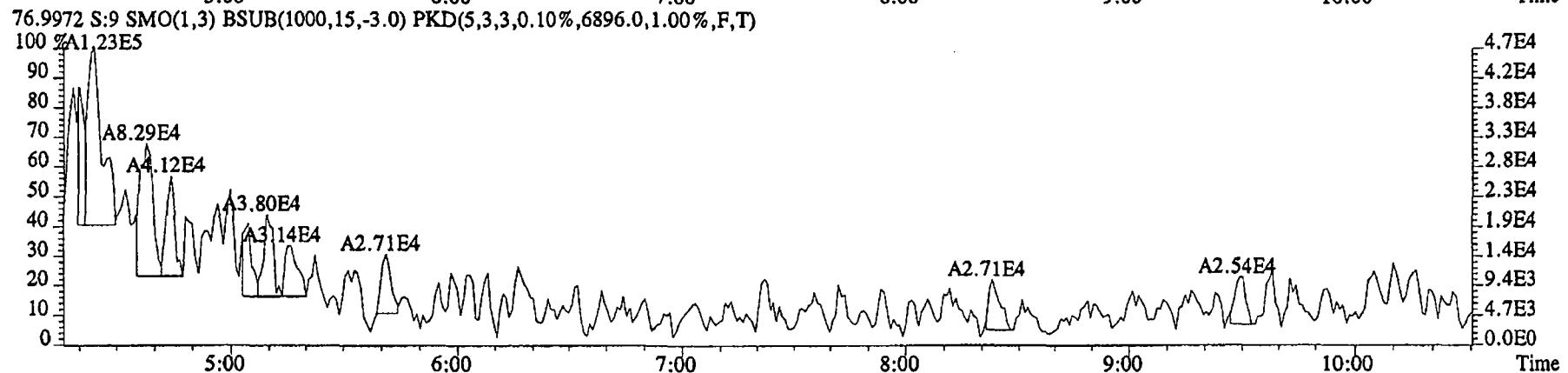
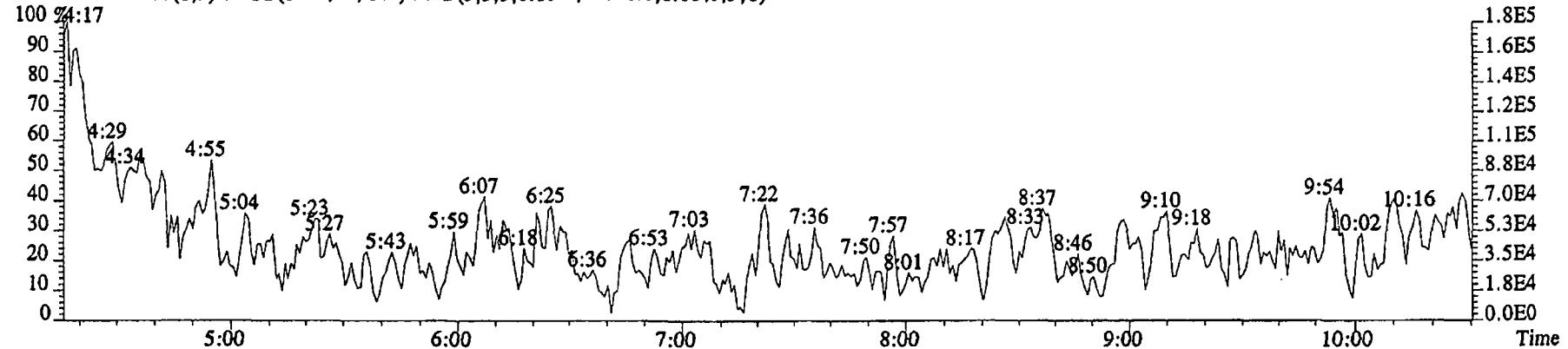
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
 Sample#9 Text:SB1208A :Solvent Blank DCM Exp:NDMAVOA
 88.0524 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6132.0,1.00%,F,T)



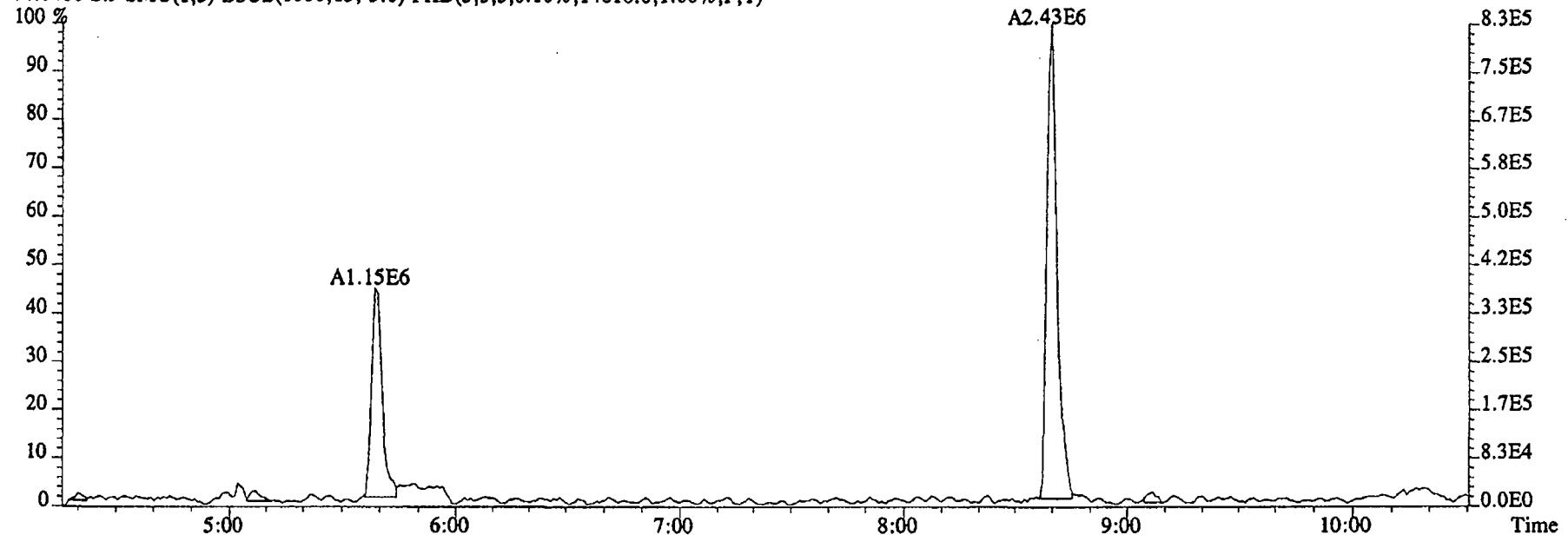
96.1026 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1112.0,1.00%,F,T)



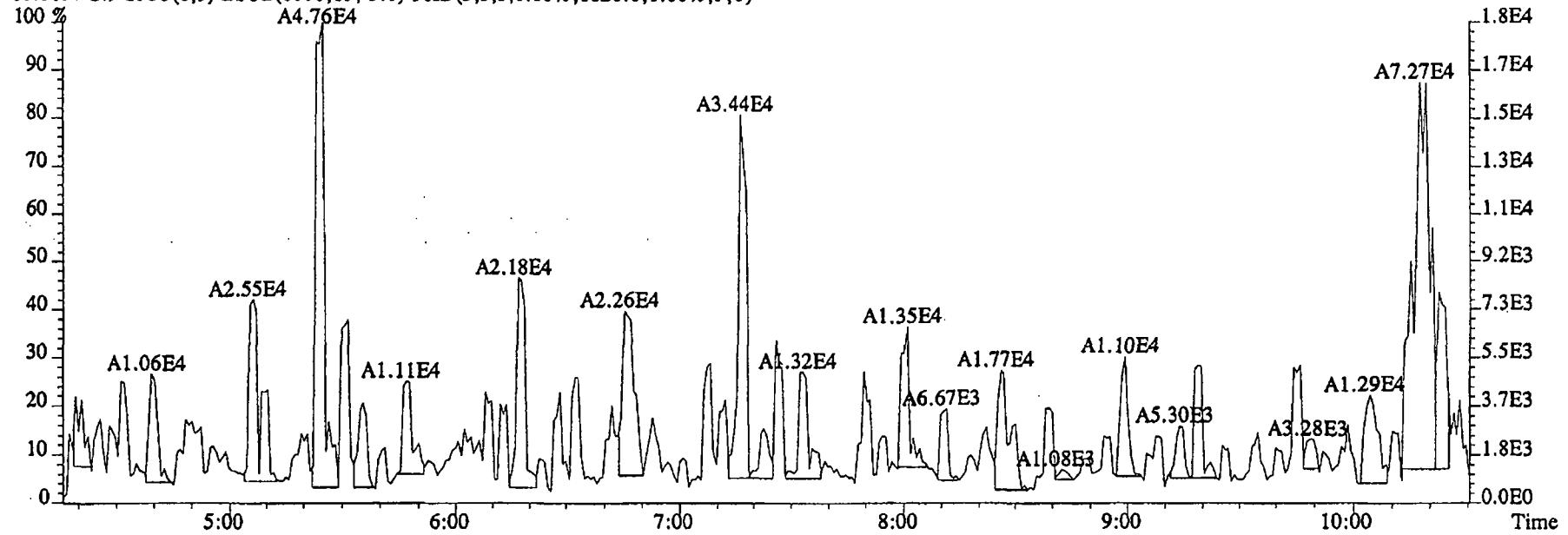
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
 Sample#9 Text:SB1208A :Solvent Blank DCM Exp:NDMAVOA
 75.0002 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,47812.0,1.00%,F,T)



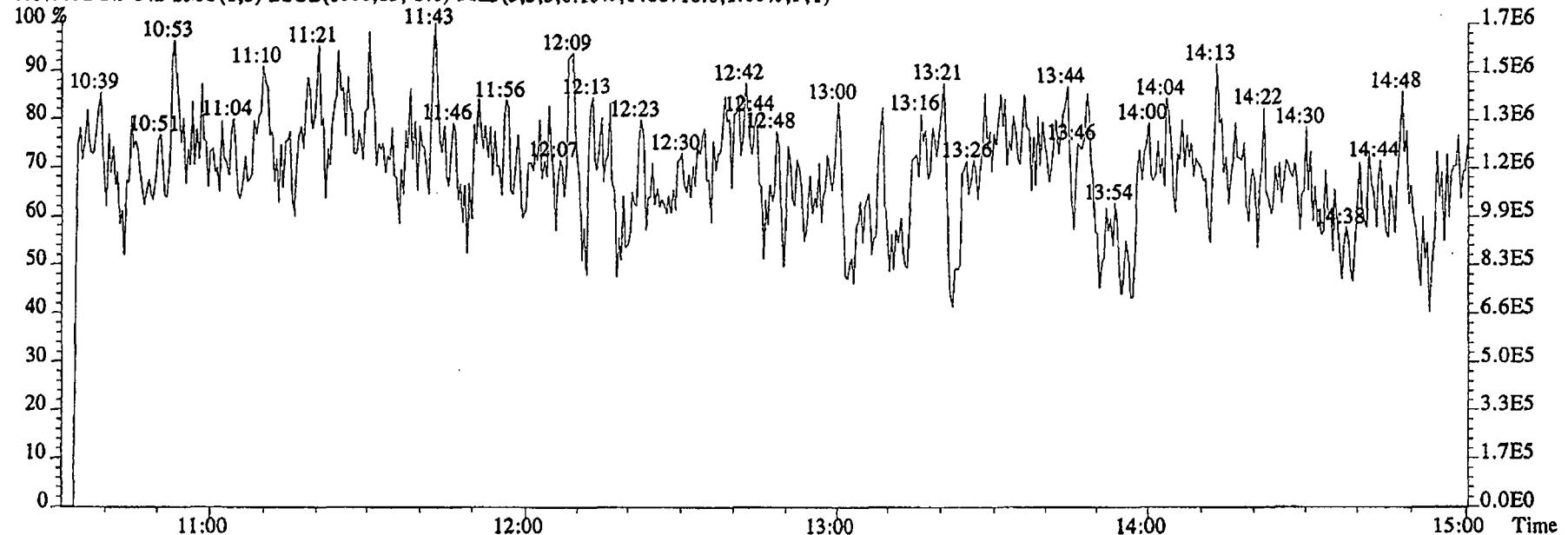
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
 Sample#9 Text:SB1208A Solvent Blank DCM Exp:NDMAVOA
 74.0480 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14816.0,1.00%,F,T)



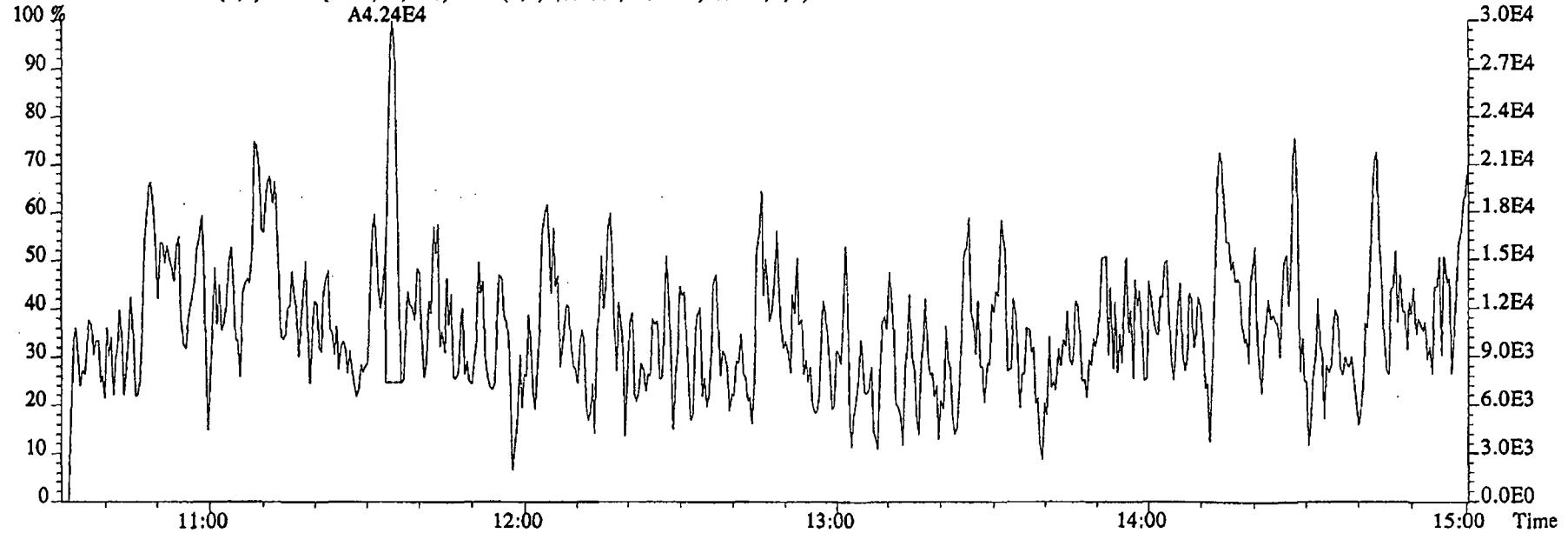
80.0857 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1828.0,1.00%,F,T)



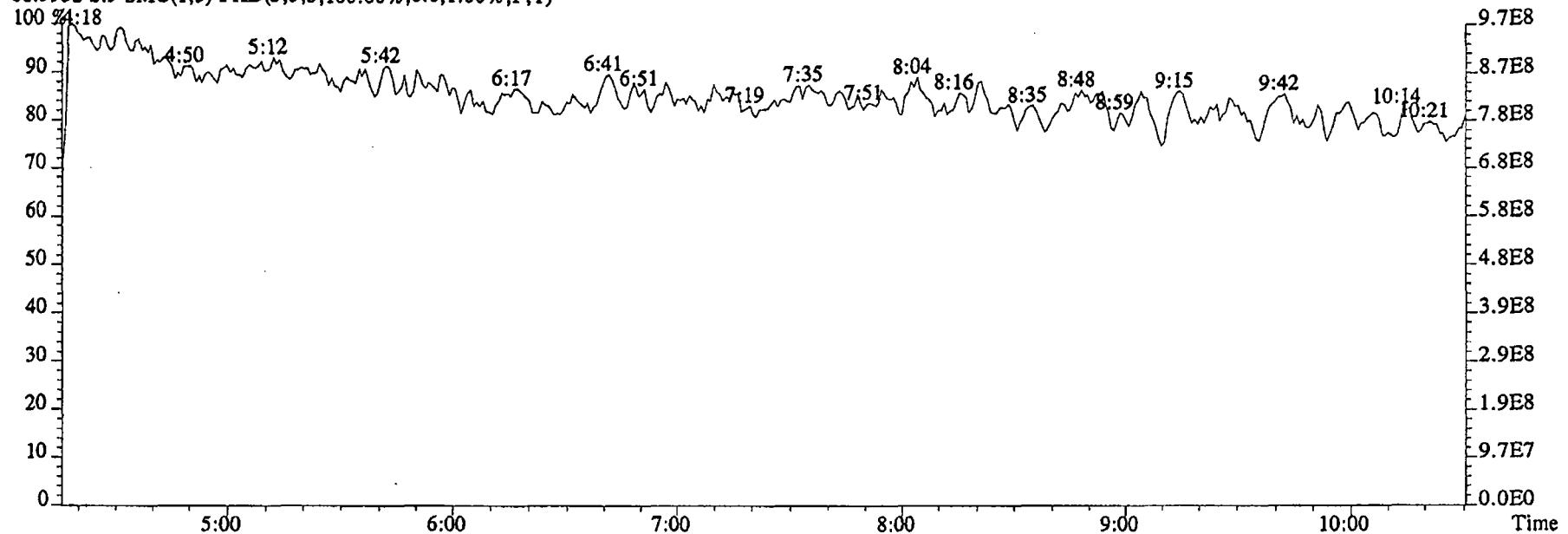
File:08DE045SP #1-626 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
 Sample#9 Text:SB1208A :Solvent Blank DCM Exp:NDMAVOA
 113.0032 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1486716.0,1.00%,F,T)



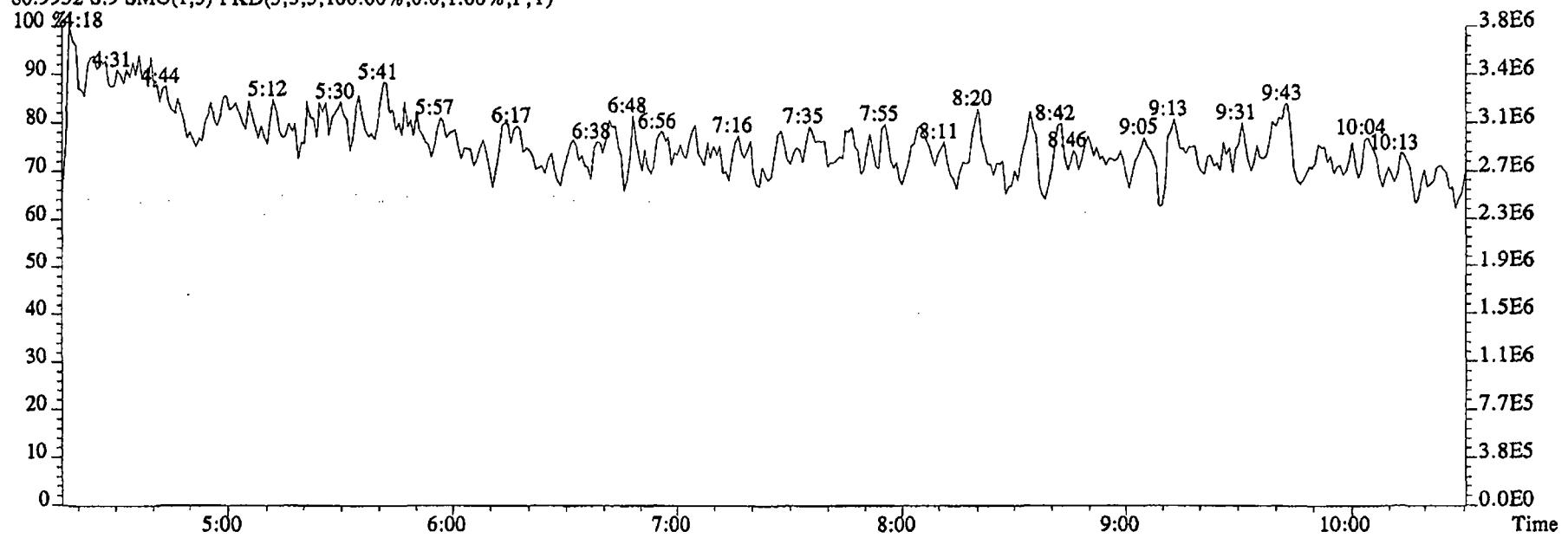
115.0003 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13564.0,1.00%,F,T)



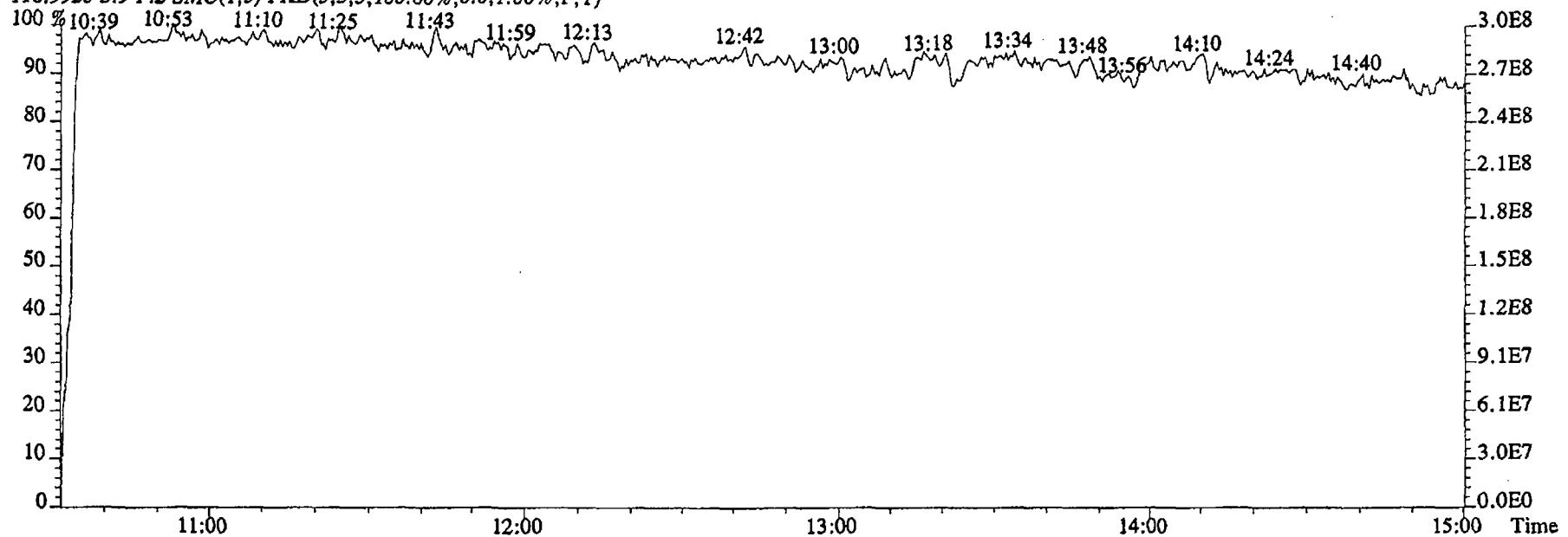
File:08DE045SP #1-462 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1208A Solvent Blank DCM Exp:NDMAVOA
68.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



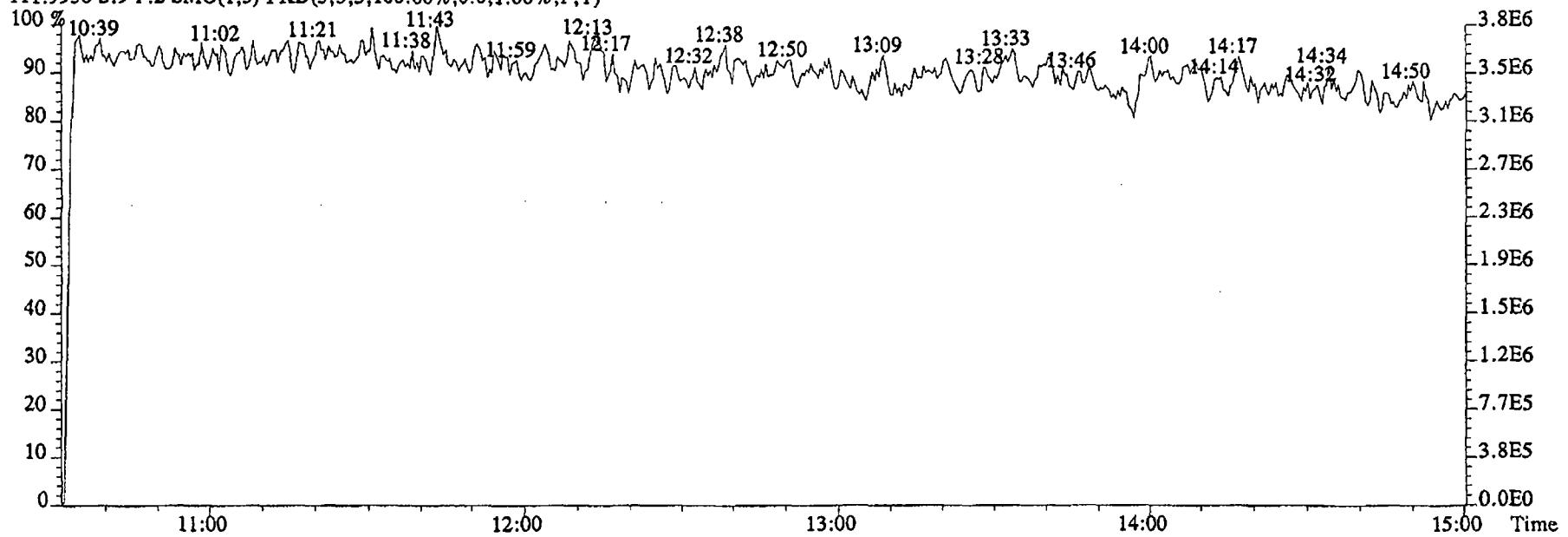
80.9952 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-626 Acq: 8-DEC-2004 19:19:10 GC EI+ Voltage SIR 70SE
Sample#9 Text:SB1208A :Solvent Blank DCM Exp:NDMAVOA
118.9920 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



111.9936 S:9 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist
High Resolution

ICAL ID K251208045SP

Method ID 55P 1625

^{AB 12/10/04}

Column ID SP-2331

Instrument ID 55P

STD ID's ST1168-ST1294, ST1293C-ST1294E

STD Solution 2300-68(A-E)

Analyzed By AM

Multiplier Setting 720

Prepared By KJS

Date Analyzed 12/10/04

Reviewed By Cpichall

Date Prepared 12/10/04

Date Reviewed 12/14/04

ANALYSIS OF ICAL		INITIATED	REVIEWED
Curve summary present?	✓	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓		✓
Copy of log-file present?	✓		✓
Static resolution check present?	✓		✓
Target file RT's correct?	✓		✓
%RSD within method-specified limits?	✓		✓
Signal-to-noise criteria met?	✓		✓
Isotopic ratios within limits?	NA		NA
High point free of saturation?	✓		✓
Are chromatographic windows correct?	✓		✓
Manual reintegration's checked and hardcopies included?	NA		NA

COMMENTS:

Method 8290: %RSD \leq 20% for natives, \leq 30% for labeled analytes; S/N \geq 10

Method 1613A: %CV \leq 35% (See Table 7, Method 1613A); S/N \geq 10

Method 23: %RSD \leq values specified in Table 5, Method 23; S/N $>$ 2.5

PAH: %RSD \leq 30% for natives and labeled compounds; S/N \geq 10

PCB: %RSD \leq 20% for natives, \leq 40% for labeled compounds; S/N \geq 2.5

NCASI 551: %RSD \leq 20% for natives and labeled compounds; \geq 5

DBD/DBF: %RSD \leq 30% for natives, \leq 40% for labeled analytes; S/N \geq 10

Run: 08DE045SPIC₇ Analyte: 1625

Cal: 16251208045SP

ST1208 :CS1 2350-68A
ST1208D :CS4 2350-68DST1208A :CS2 2350-68B
ST1208E :CS5 2350-68E

ST1208C :CS3 2350-68C

Name	Mean	S. D.	%RSD	08DE045SP				
				S1	S2	S4	S5	S6
				RRF1	RRF2	RRF3	RRF4	RRF5
2-Chloropyridine	-	-	- %	-	-	-	-	-
D8-1,4-Dioxane	0.925	0.202	21.9 %	1.03	1.17	0.98	0.80	0.65
1,4-Dioxane	1.125	0.134	12.0 %	1.03	1.07	1.02	1.16	1.34
D5-1,2,3-TrichloroPropane	2.524	0.068	2.71 %	2.46	2.49	2.63	2.49	2.56
1,2,3-TrichloroPropane	0.505	0.042	8.36 %	0.56	0.45	0.48	0.51	0.52
1,2,3-TrichloroPropane	-	-	- %	-	-	-	-	-
D6-NDMA	1.402	0.074	5.25 %	1.49	1.35	1.39	1.46	1.31
NDMA	1.758	0.138	7.83 %	1.98	1.68	1.66	1.66	1.80
2-Chloropyridine	-	-	- %	-	-	-	-	-

Run #1 Filename 08DE045SP S: 1 I: 1
 Acquired: 8-DEC-04 16:31:35 Processed: 8-DEC-04 18:35:10
 Run: 08DE045SPIC Analyte: 1625 Cal: 16251208045SP
 Comments:

Sample text: ST1208 :CS1 2350-68A

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	35018600		11:08	-	200.00	n
D8-1,4-Dioxane	180399000		5:07	1.03	1000.00	n
1,4-Dioxane	372387		5:08	1.03	2.00	n
D5-123-TrichloroPropane	43092200		10:04	2.46	100.00	n
1,2,3-TrichloroPropane	485895		10:06	0.56	2.00	n
1,2,3-TrichloroPropane	1319880		10:07	-	2.00	n
D6-NDMA	26110800		10:14	1.49	100.00	n
NDMA	1034040		10:13	1.98	2.00	n
2-Chloropyridine	115245000		11:08	-	200.00	n

Run #2 Filename 08DE045SP S: 2 I: 1
 Acquired: 8-DEC-04 16:51:55 Processed: 8-DEC-04 18:35:10
 Run: 08DE045SPIC Analyte: 1625 Cal: 16251208045SP
 Comments:

Sample text: ST1208A :CS2 2350-68B

	Name	Resp	RA	RT	RRF		Mod?
	2-Chloropyridine	23491400		11:08	-	200.00	n
D8-1,4-Dioxane	136974000			5:07	1.17	1000.00	n
1,4-Dioxane	1461060			5:07	1.07	10.00	n
D5-123-TriChloroPropane	29195800			10:04	2.49	100.00	n
1,2,3-TriChloroPropane	1311380			10:07	0.45	10.00	n
1,2,3-TriChloroPropane	4270440			10:07	-	10.00	n
D6-NDMA	15856800			10:14	1.35	100.00	n
NDMA	2670400			10:13	1.68	10.00	n
2-Chloropyridine	77638500			11:08	-	200.00	n

Run #3 Filename 08DE045SP S: 4 I: 1
 Acquired: 8-DEC-04 17:37:04 Processed: 8-DEC-04 18:35:11
 Run: 08DE045SPIC Analyte: 1625 Cal: 16251208045SP
 Comments:

Sample text: ST1208C :CS3 2350-68C

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	16270600		11:07	-	200.00	n
D8-1,4-Dioxane	79647400		5:07	0.98	1000.00	n
1,4-Dioxane	4063510		5:07	1.02	50.00	n
D5-123-TriChloroPropane	21386900		10:03	2.63	100.00	n
1,2,3-TriChloroPropane	5185860		10:06	0.48	50.00	n
1,2,3-TriChloroPropane	15990600		10:06	-	50.00	n
D6-NDMA	11338200		10:14	1.39	100.00	n
NDMA	9438330		10:14	1.66	50.00	n
2-Chloropyridine	57087100		11:07	-	200.00	n

Run #4 Filename 08DE045SP S: 5 I: 1
 Acquired: 8-DEC-04 17:57:28 Processed: 8-DEC-04 18:35:11
 Run: 08DE045SPIC₁ Analyte: 1625 Cal: 16251208045SP
 Comments:

Sample text: ST1208D :CS4 2350-68D

Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	30584500		11:07	-	200.00	n
D8-1,4-Dioxane	121752000		5:07	0.80	1000.00	n
1,4-Dioxane	28293400		5:07	1.16	200.00	n
D5-123-TriChloroPropane	38075600		10:03	2.49	100.00	n
1,2,3-TriChloroPropane	38739500		10:07	0.51	200.00	n
1,2,3-TriChloroPropane	126405000		10:07	-	200.00	n
D6-NDMA	22302600		10:14	1.46	100.00	n
NDMA	73905600		10:14	1.66	200.00	n
2-Chloropyridine	100033000		11:07	-	200.00	n

Run #5 Filename 08DE045SP S: 6 I: 1
 Acquired: 8-DEC-04 18:17:53 Processed: 8-DEC-04 18:35:12
 Run: 08DE045SPIC₁ Analyte: 1625 Cal: 16251208045SP
 Comments:

Sample text: ST1208E :CS5 2350-68E

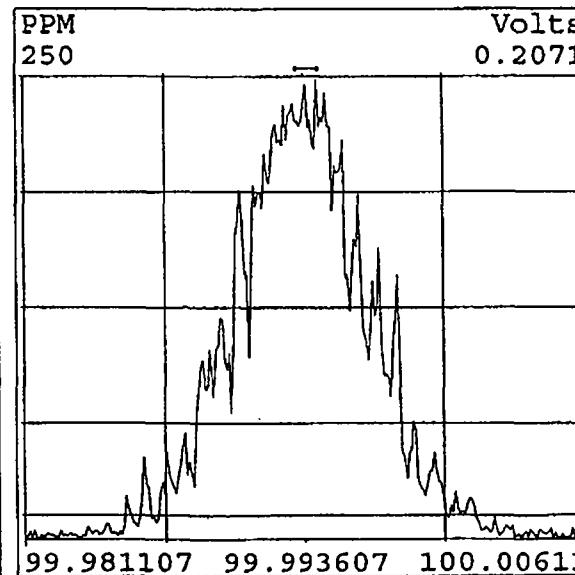
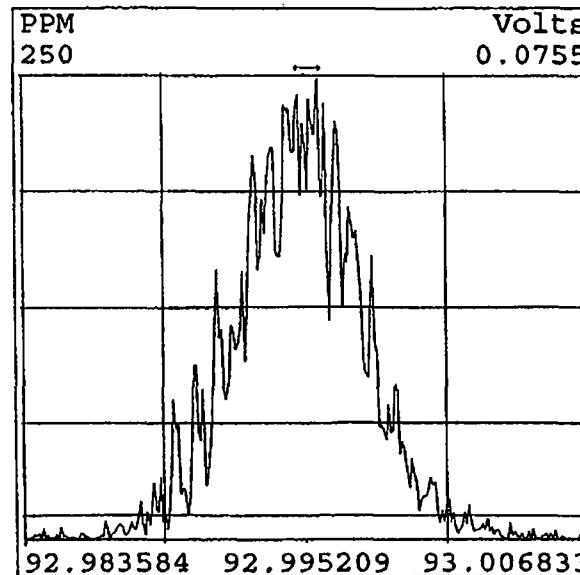
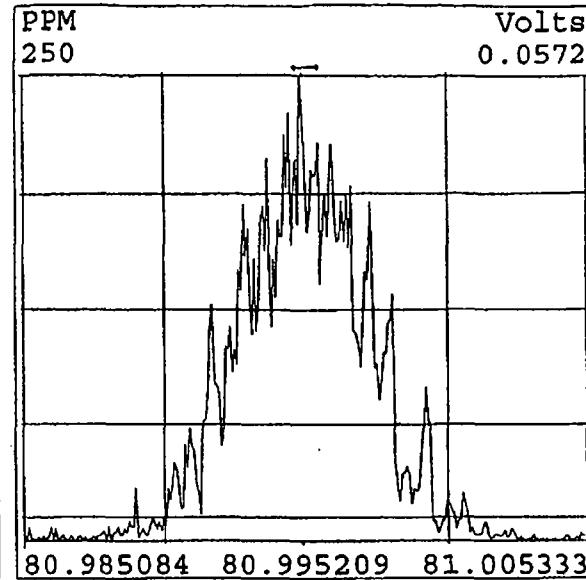
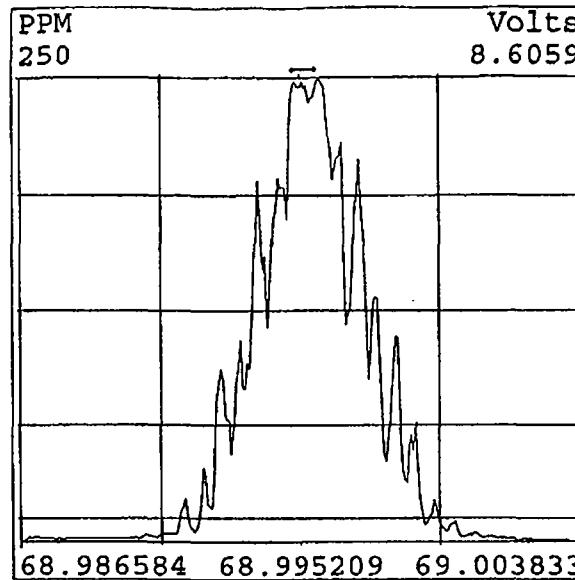
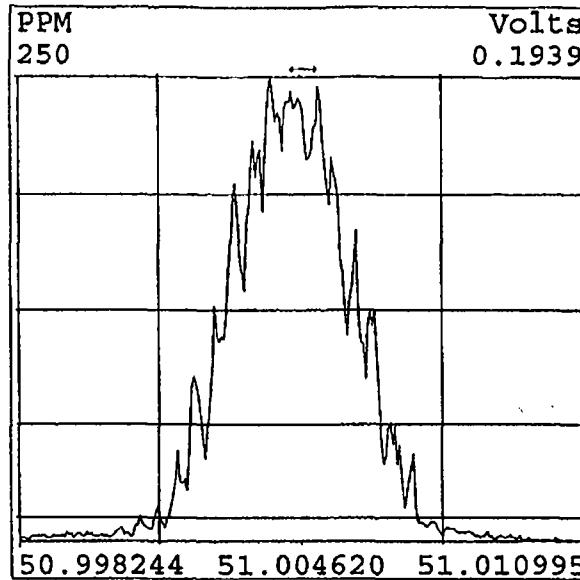
Name	Resp	RA	RT	RRF		Mod?
2-Chloropyridine	38280400		11:07	-	200.00	n
D8-1,4-Dioxane	124577000		5:07	0.65	1000.00	n
1,4-Dioxane	167435000		5:07	1.34	1000.00	n
DS-123-TriChloroPropane	48932700		10:03	2.56	100.00	n
1,2,3-TriChloroPropane	252814000		10:06	0.52	1000.00	n
1,2,3-TriChloroPropane	816514000		10:07	-	1000.00	n
D6-NDMA	25154800		10:14	1.31	100.00	n
NDMA	453652000		10:13	1.80	1000.00	n
2-Chloropyridine	124573000		11:07	-	200.00	n

Data File	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
08DE045SP	1	ST1208	CS1 2350-68A				1.000	
08DE045SP	2	ST1208A	CS2 2350-68B				1.000	
08DE045SP	3	ST1208B	CS3 2350-68C <i>NT 0180 121444</i>				1.000	
08DE045SP	4	ST1208C	CS3 2350-68C				1.000	
08DE045SP	5	ST1208D	CS4 2350-68D				1.000	
08DE045SP	6	ST1208E	CS5 2350-68E				1.000	
08DE045SP	7	SB1208	Solvent Blank DCM				1.000	
08DE045SP	8	ST1208F	CS3 2350-68C				1.000	
08DE045SP	9	SB1208A	Solvent Blank DCM				1.000	
08DE045SP	10	G0FX0-1-AAB	G4L040125-1MB	500	1625/WATER	VS52	1.000	L
08DE045SP	11	G0FX0-1-ACC	G4L040125-1LCS	500	1625/WATER		1.000	L
08DE045SP	12	G0FX0-1-ADL	G4L040125-1DCS	500	1625/WATER		1.000	L
08DE045SP	13	G0AGN-1-AC	G4L040125-1	500	1625/WATER		0.996	L
08DE045SP	14	G0AGR-1-AC	G4L040125-2	500	1625/WATER		0.979	L
08DE045SP	15	G0AGV-1-AC	G4L040125-3	500	1625/WATER		0.973	L
08DE045SP	16	G0AVX-1-AC	G4L040125-4	500	1625/WATER		0.972	L
08DE045SP	17	G0A8Q-1-AE	G4L040211-30	500	1625/WATER		0.970	L
08DE045SP	18	GX97M-1-AA	G4L030417-1	500	1625/WATER		0.969	L
08DE045SP	19	G0A6L-1-AC	G4L040206-1	500	1625/WATER		0.986	L
08DE045SP	20	SB1208B	Solvent Blank DCM				1.000	
08DE045SP	21	ST1208G	CS3 2350-68C				1.000	
08DE045SP	22						1.000	
08DE045SP	23						1.000	
08DE045SP	24						1.000	
08DE045SP	25						1.000	
08DE045SP	26						1.000	
08DE045SP	27						1.000	
08DE045SP	28						1.000	
08DE045SP	29						1.000	
08DE045SP	30		AM 12-08-04				1.000	
08DE045SP	31						1.000	

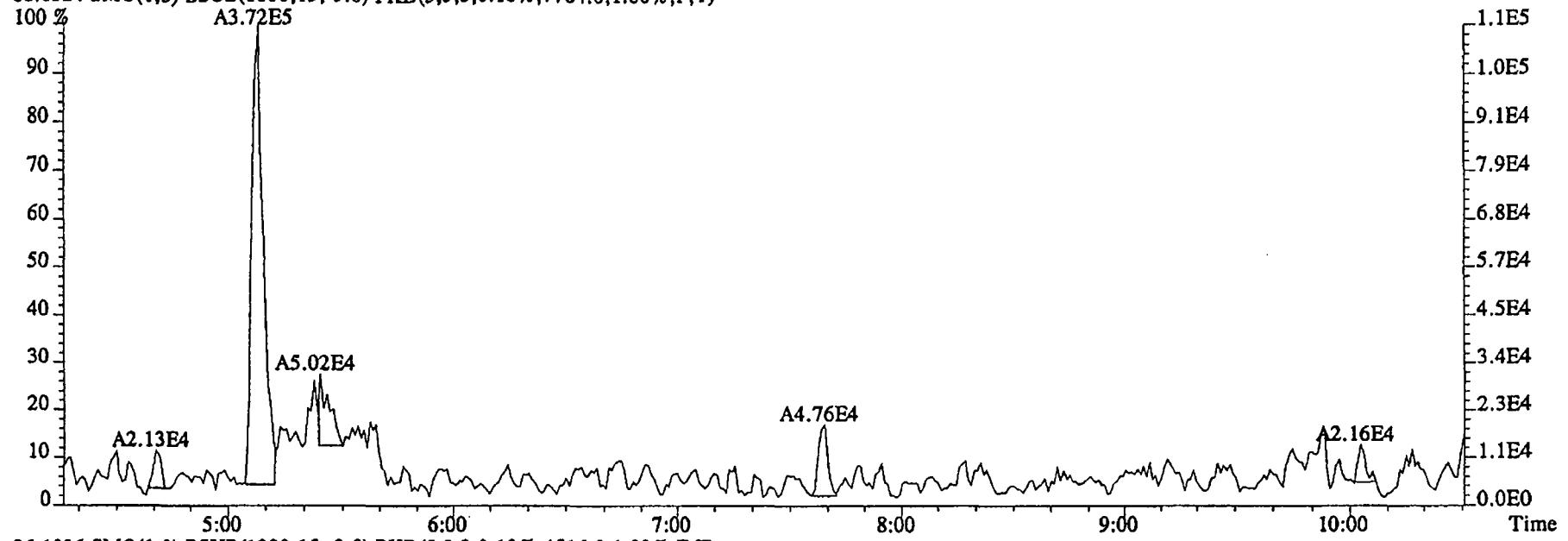
reviewed by: *AS*

12/9/04

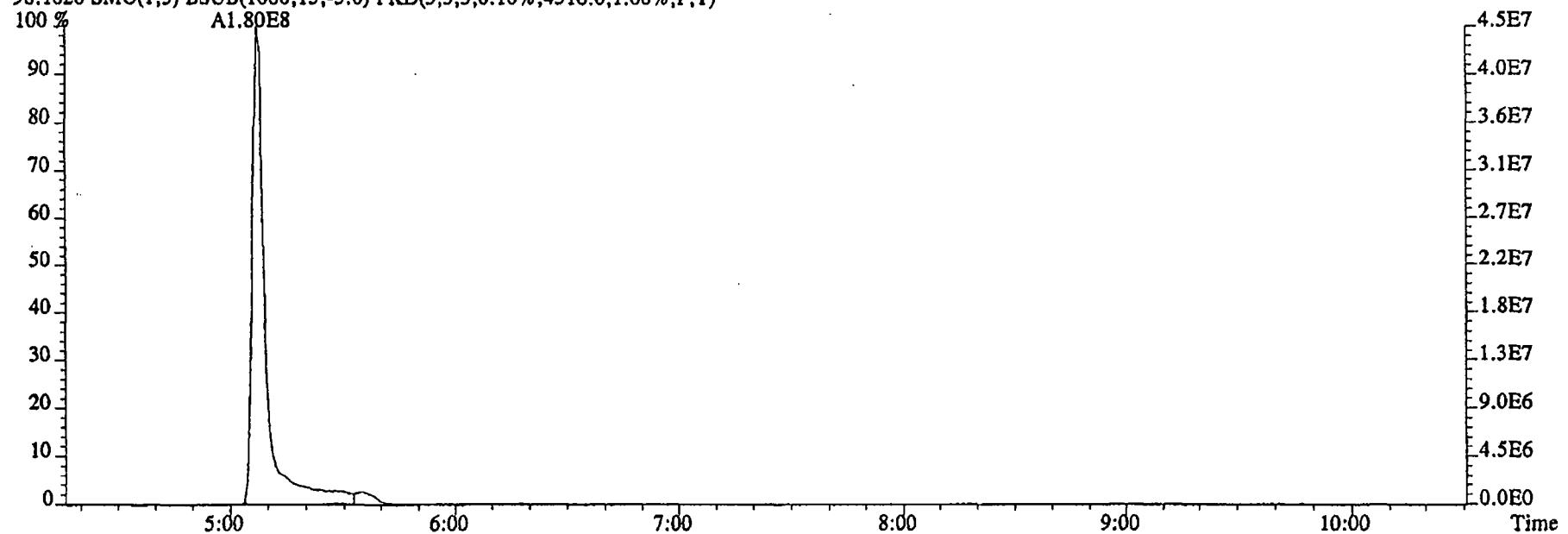
Peak Locate Examination: 8-DEC-2004:16:29 File:08DE045SP
Experiment:NDMAVOA Function:1 Reference:PFK



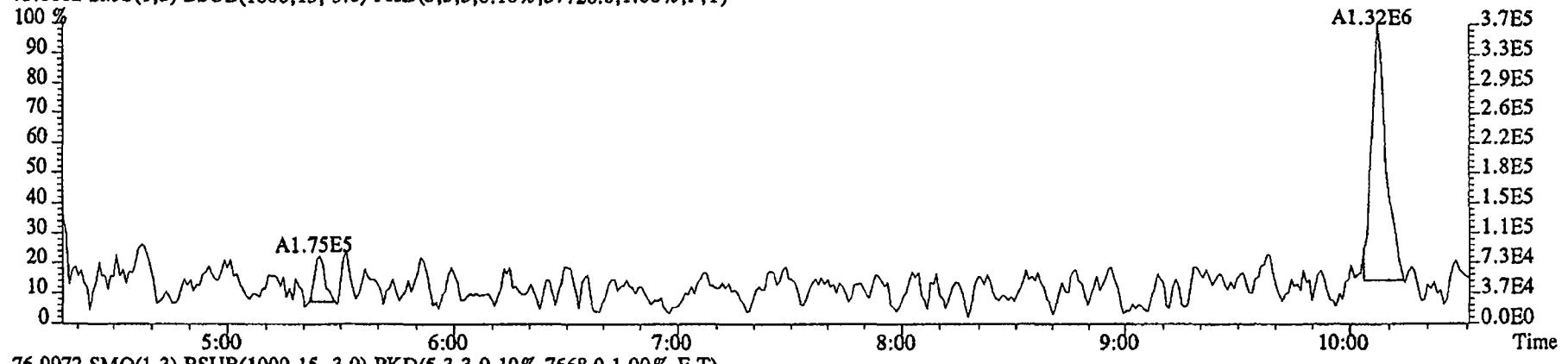
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:31:35 GC El+ Voltage SIR 70SE
Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
88.0524 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7764.0,1.00%,F,T)



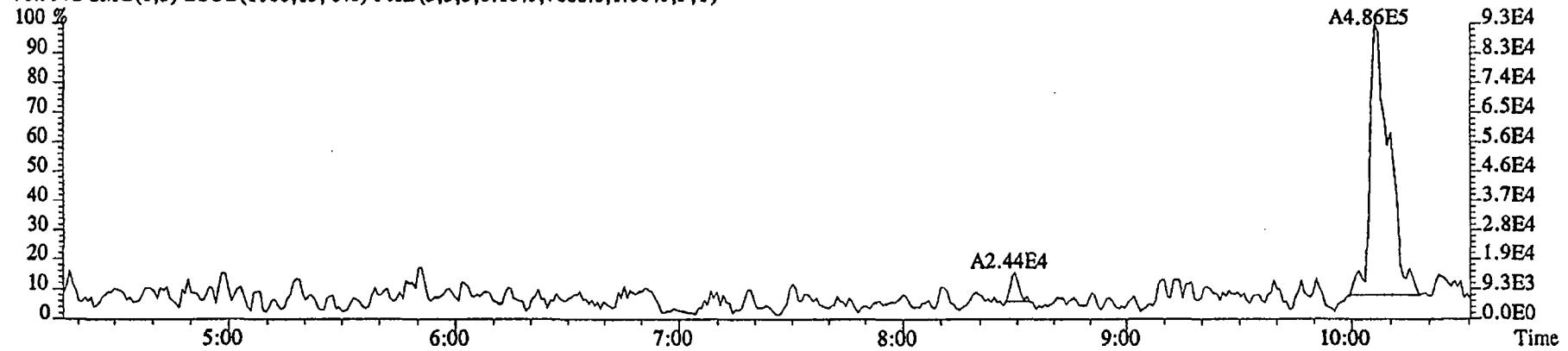
96.1026 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)



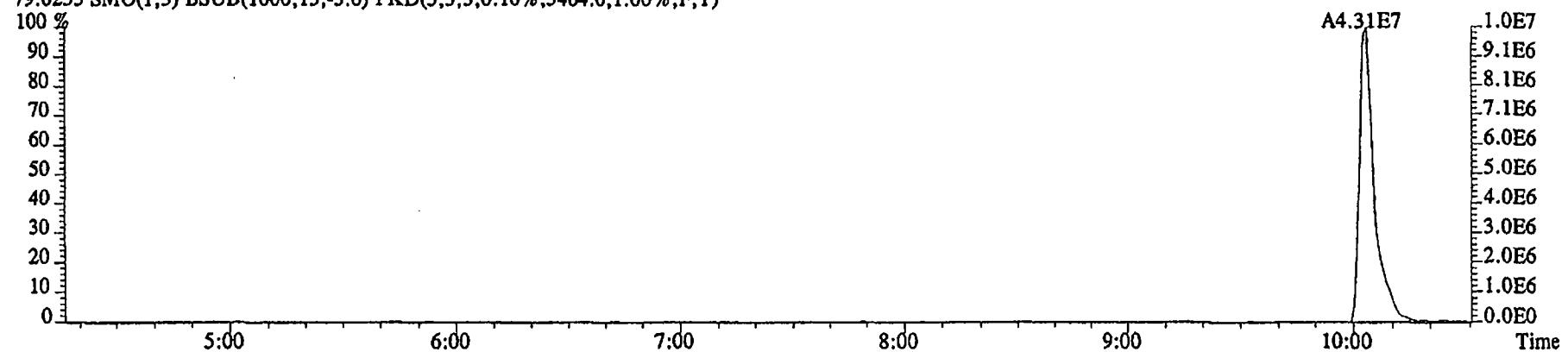
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:31:35 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
 75.0002 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,57728.0,1.00%,F,T)



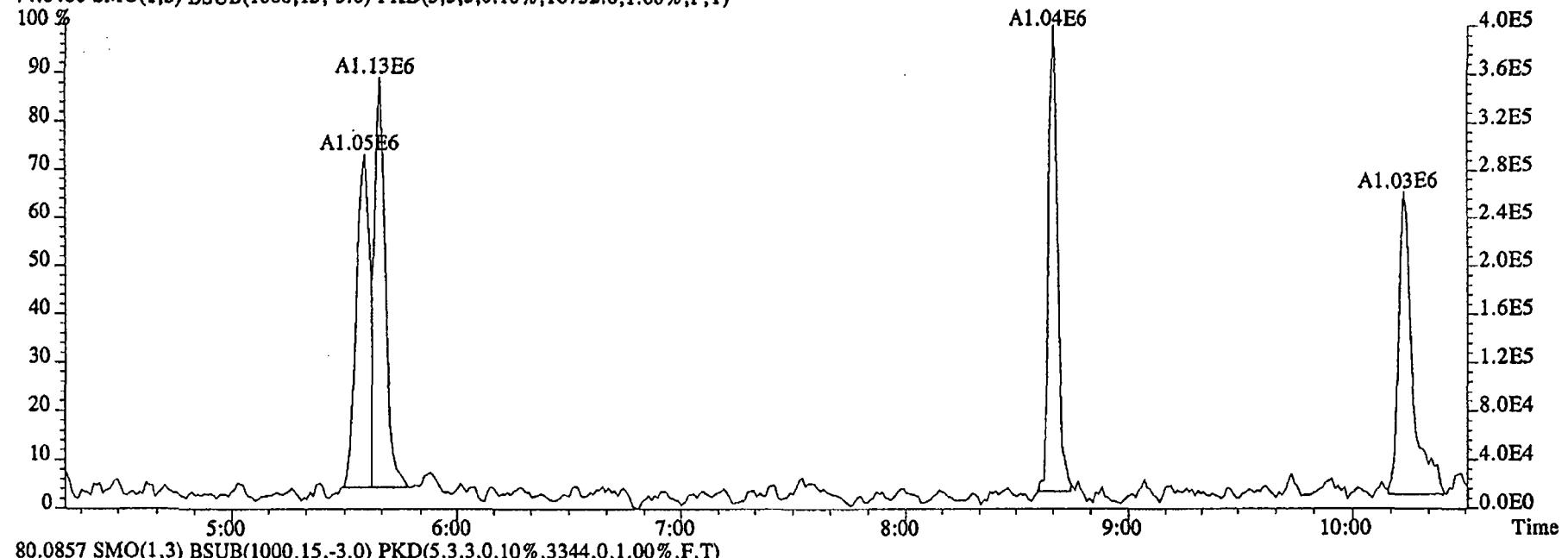
76.9972 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7668.0,1.00%,F,T)



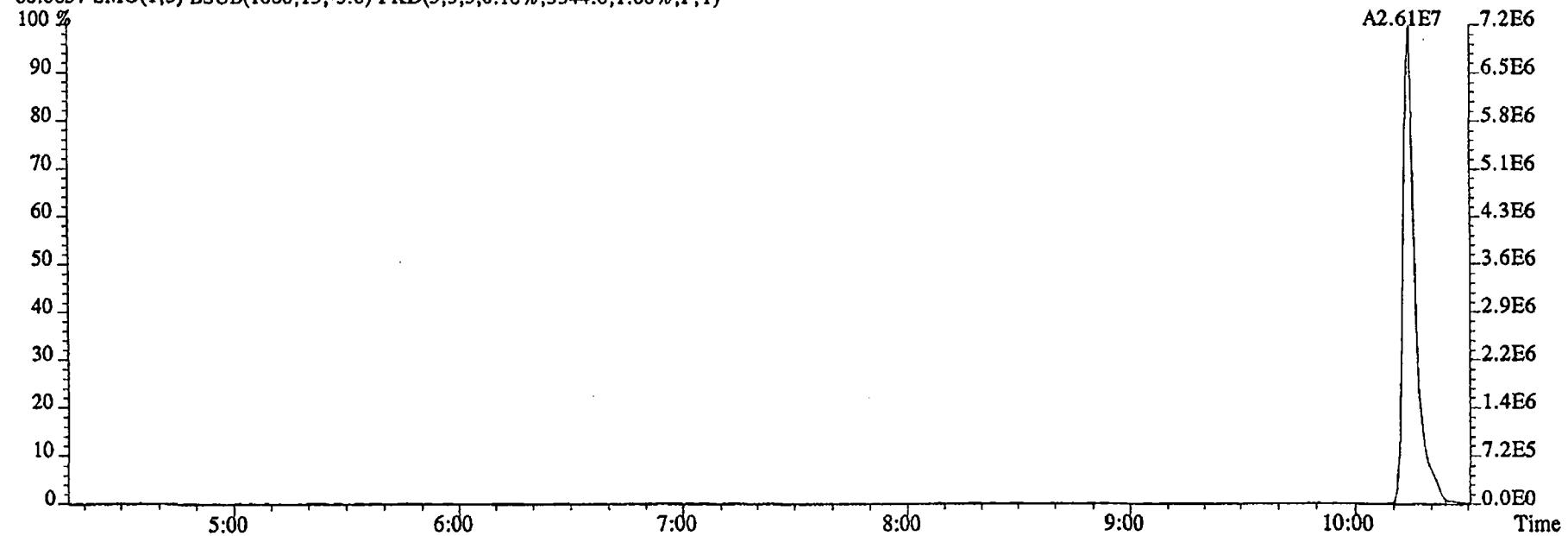
79.0253 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5464.0,1.00%,F,T)



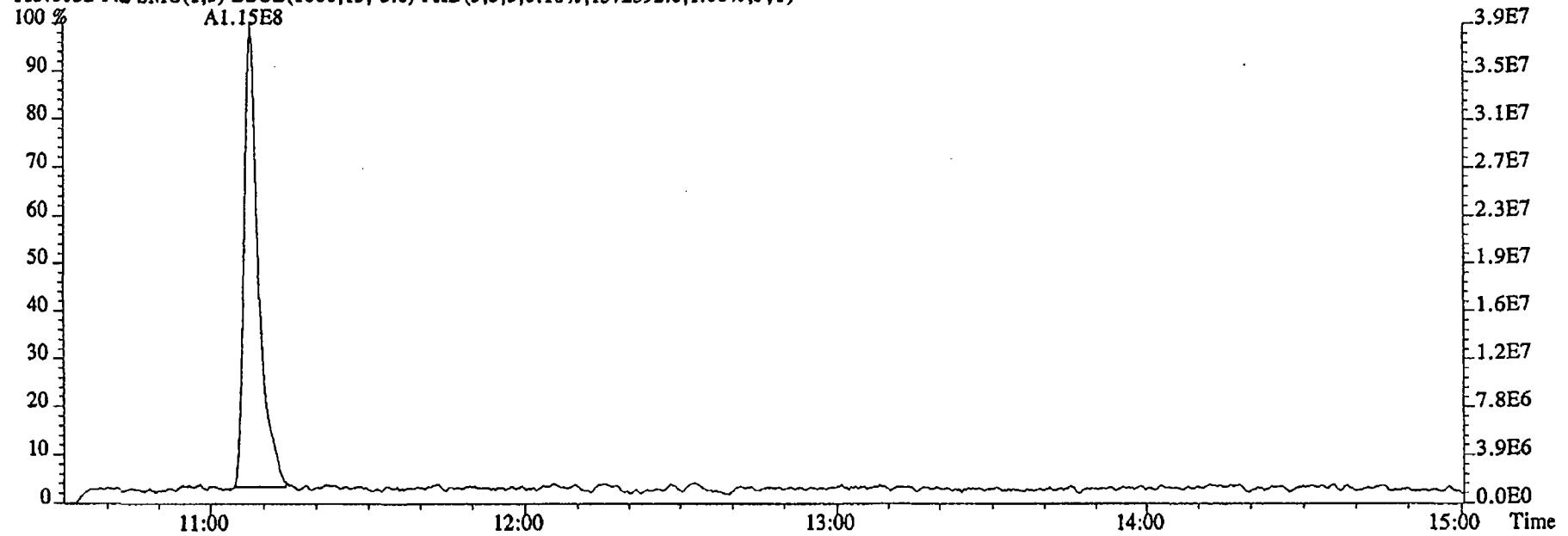
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:31:35 GC EI+ Voltage SIR 70SE
Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
74.0480 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16732.0,1.00%,F,T)



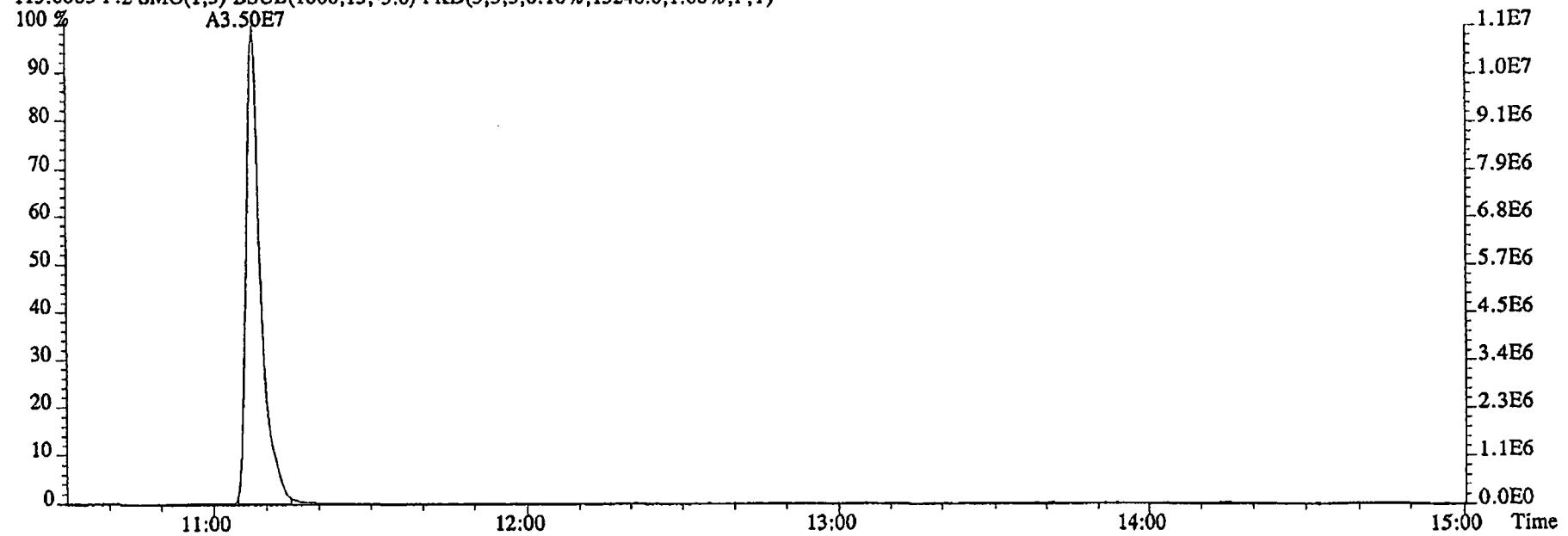
80.0857 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3344.0,1.00%,F,T)



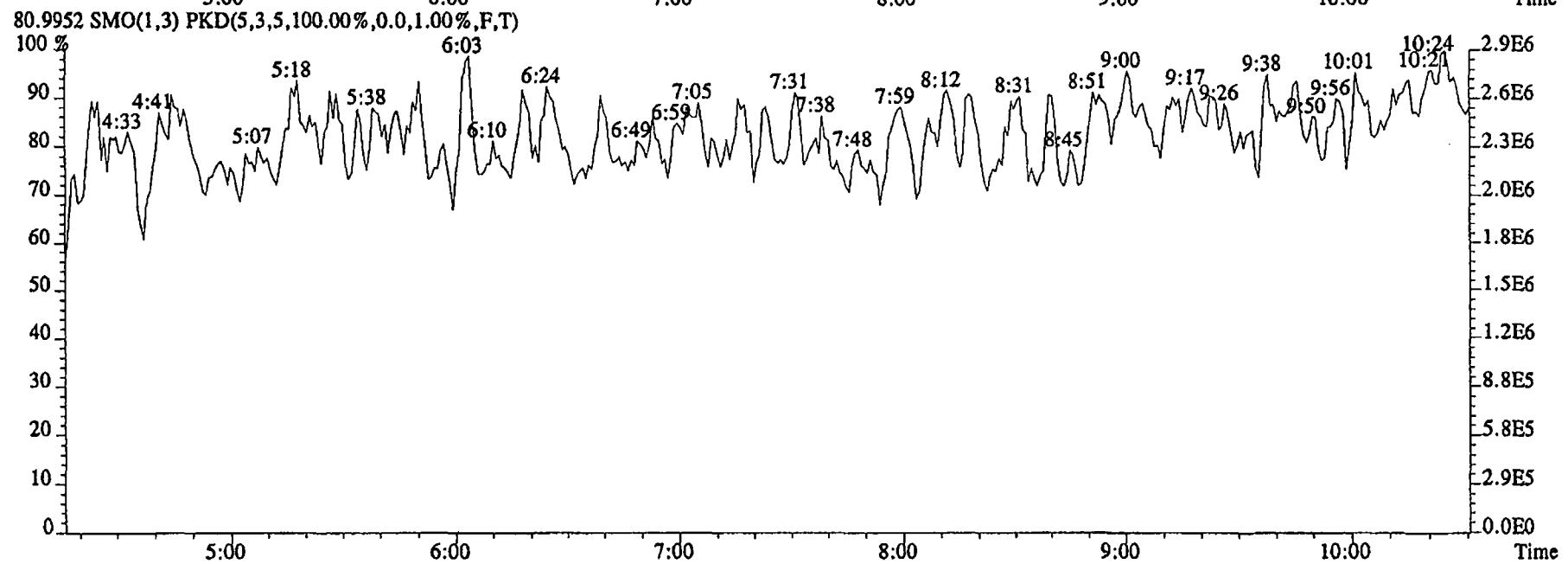
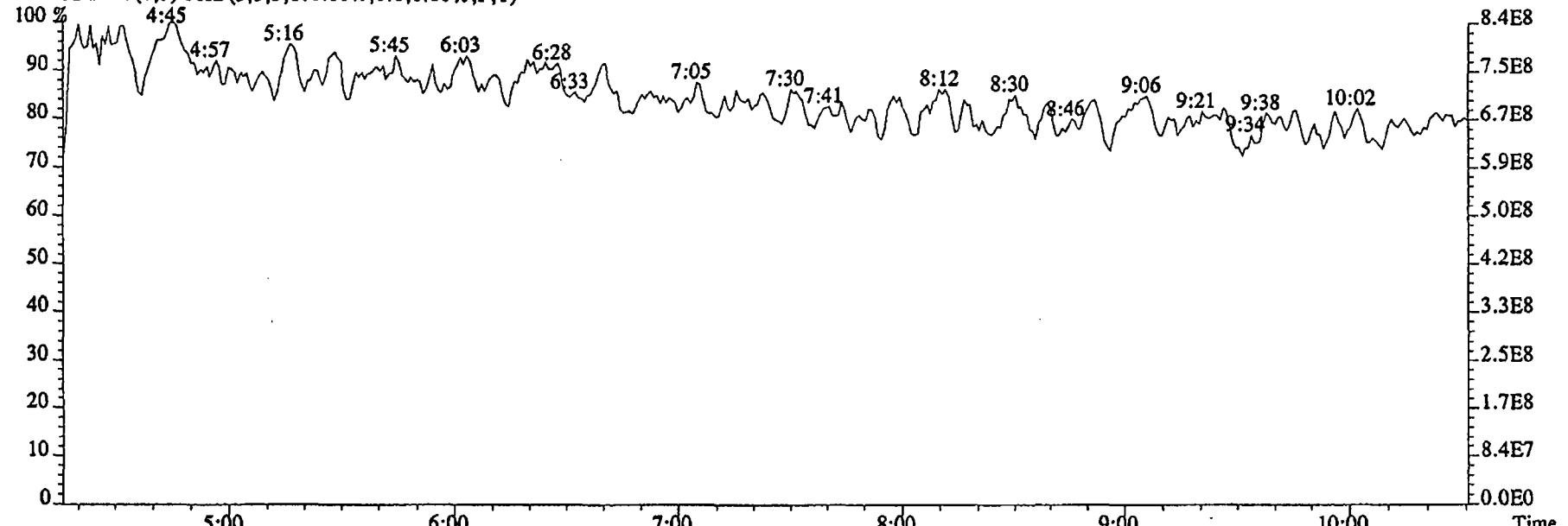
File:08DE045SP #1-626 Acq: 8-DEC-2004 16:31:35 GC EI+ Voltage SIR 70SE
Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
113.0032 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572592.0,1.00%,F,T)



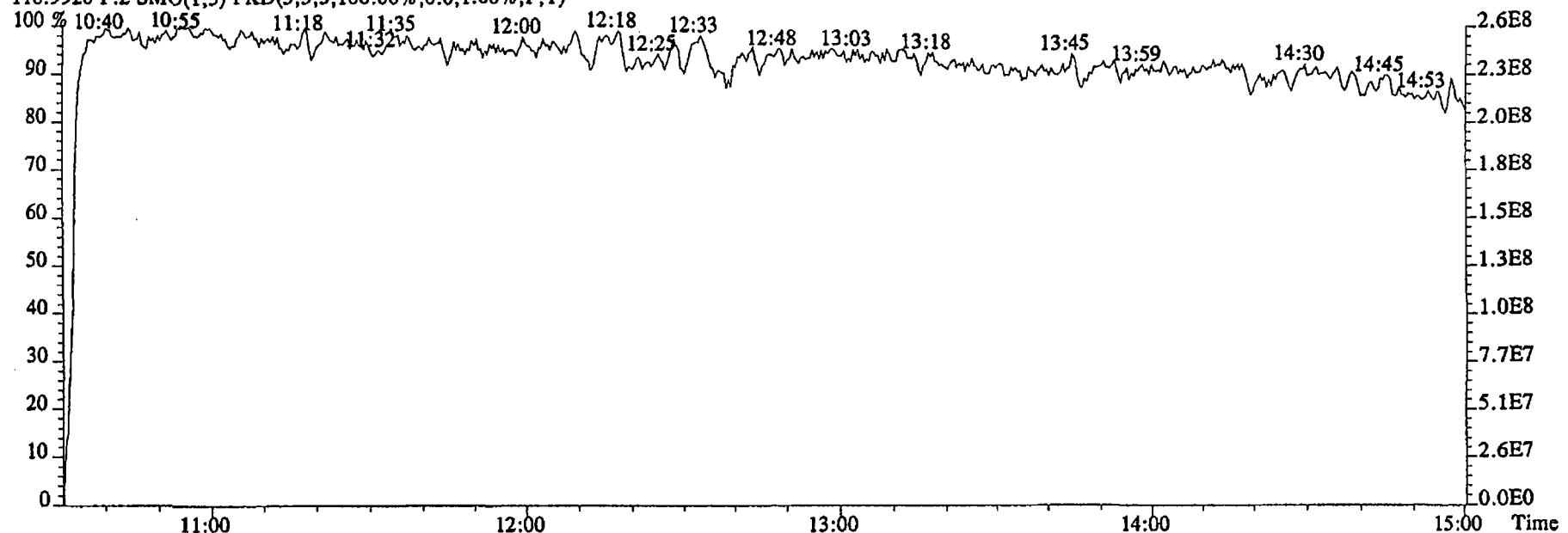
115.0003 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15248.0,1.00%,F,T)



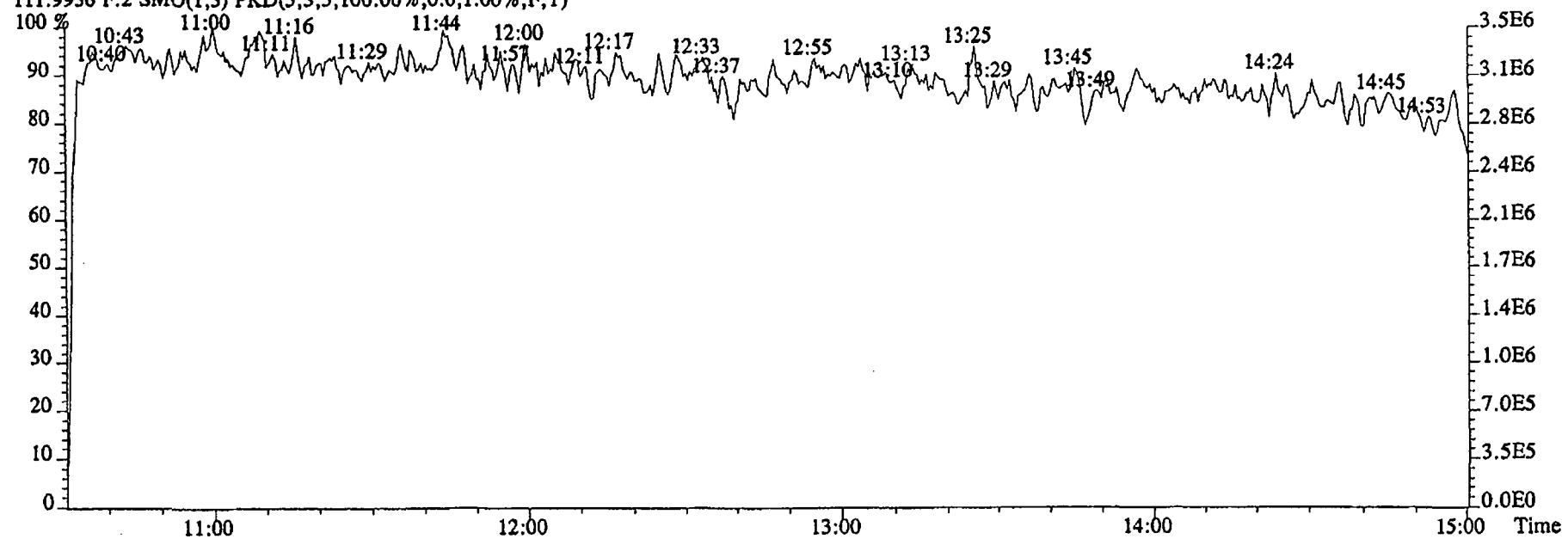
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:31:35 GC EI+ Voltage SIR 70SE
Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
68.9952 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



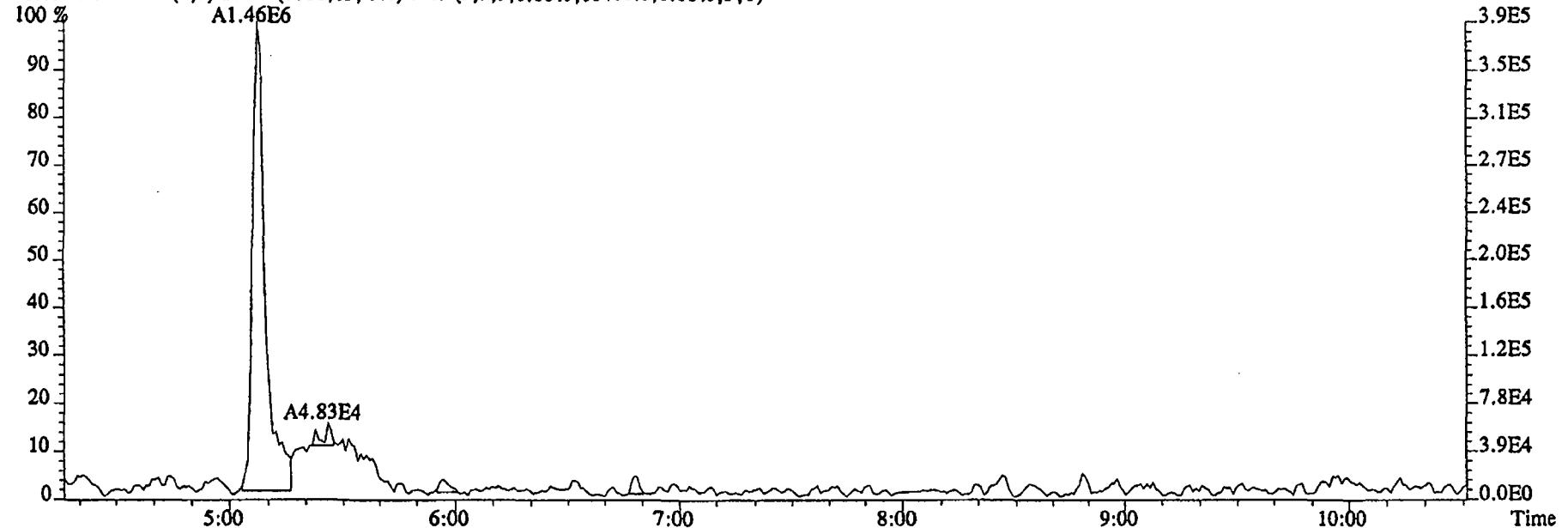
File:08DE045SP #1-626 Acq: 8-DEC-2004 16:31:35 GC El+ Voltage SIR 70SE
Sample#1 Text:ST1208 :CS1 2350-68A Exp:NDMAVOA
118.9920 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



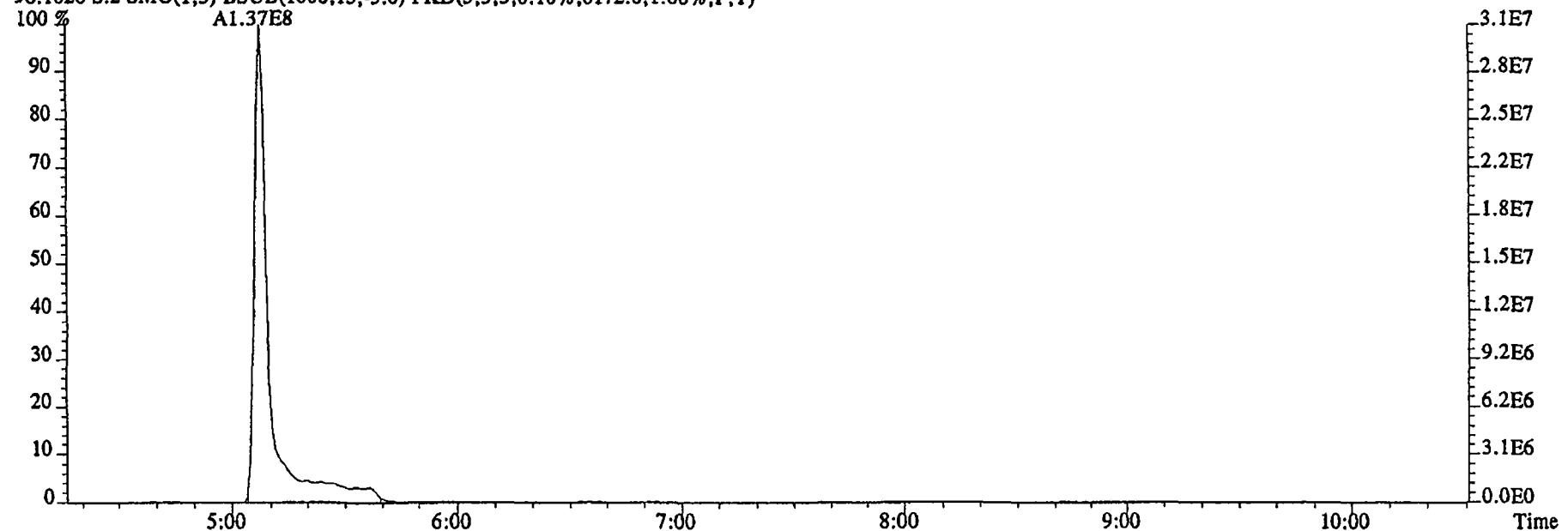
111.9936 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



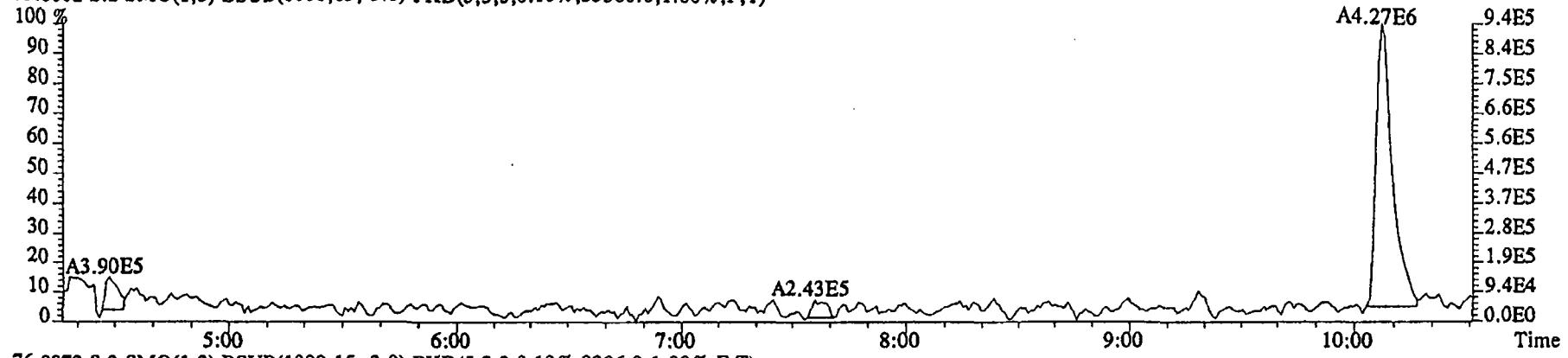
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:51:55 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
88.0524 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10400.0,1.00%,F,T)



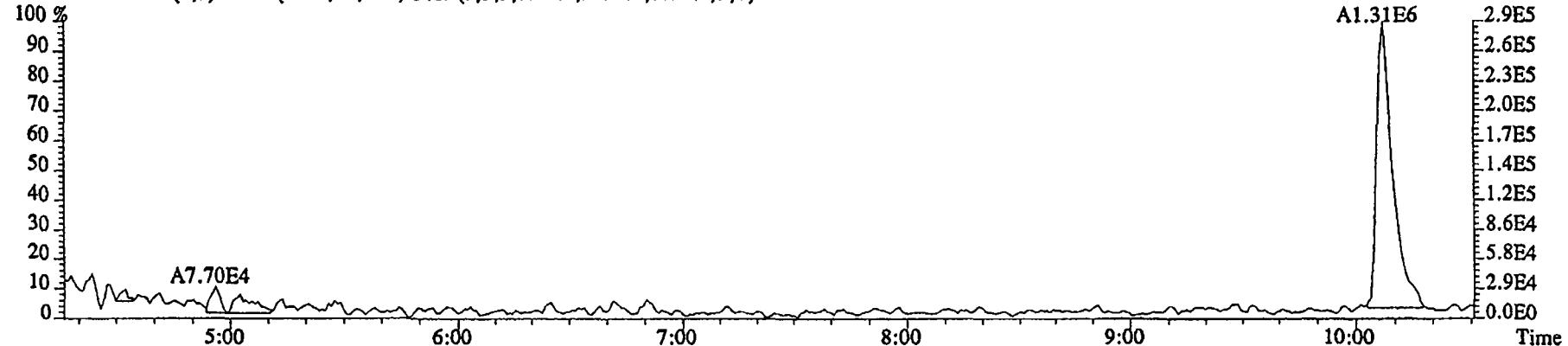
96.1026 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6172.0,1.00%,F,T)



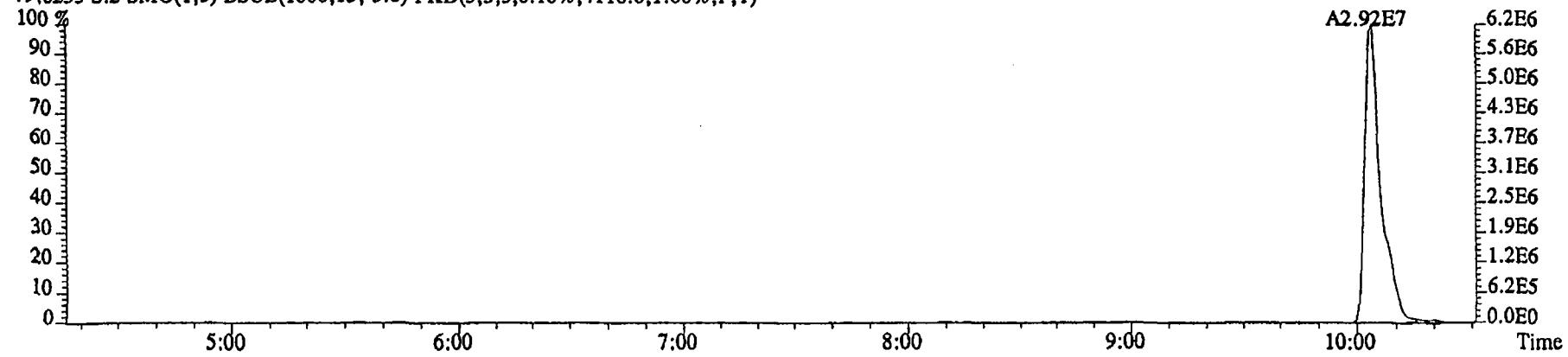
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:51:55 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
 75.0002 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,55380.0,1.00%,F,T)



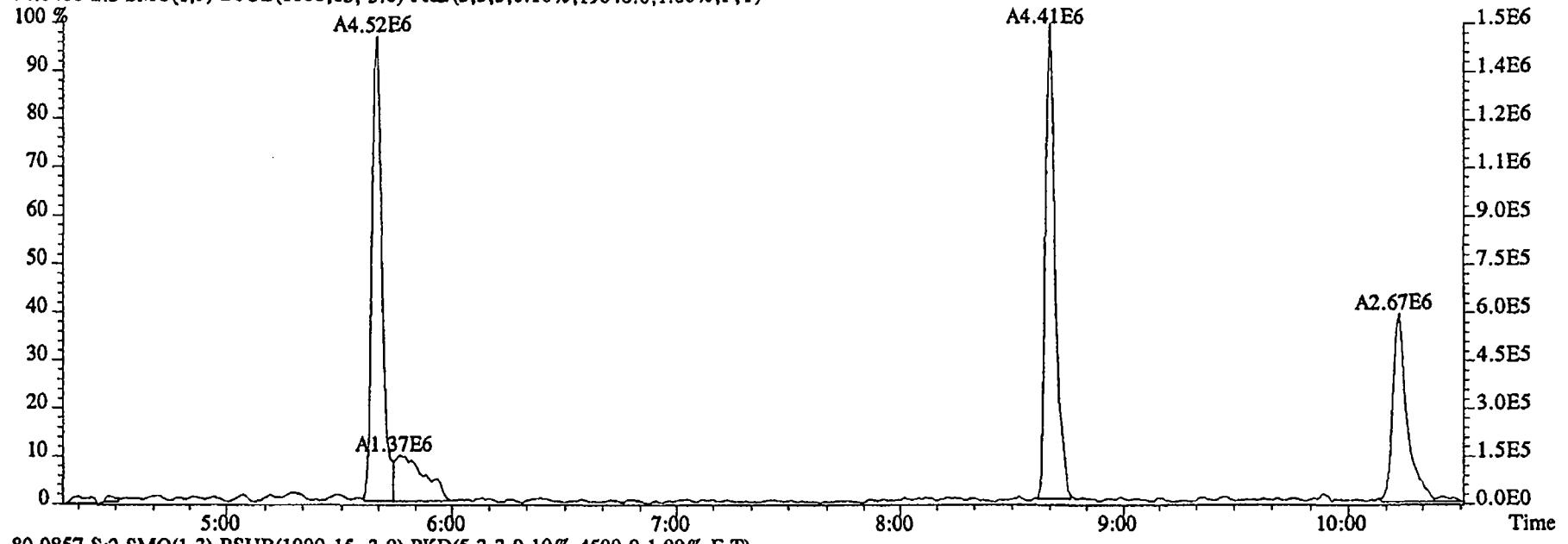
76.9972 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9396.0,1.00%,F,T)



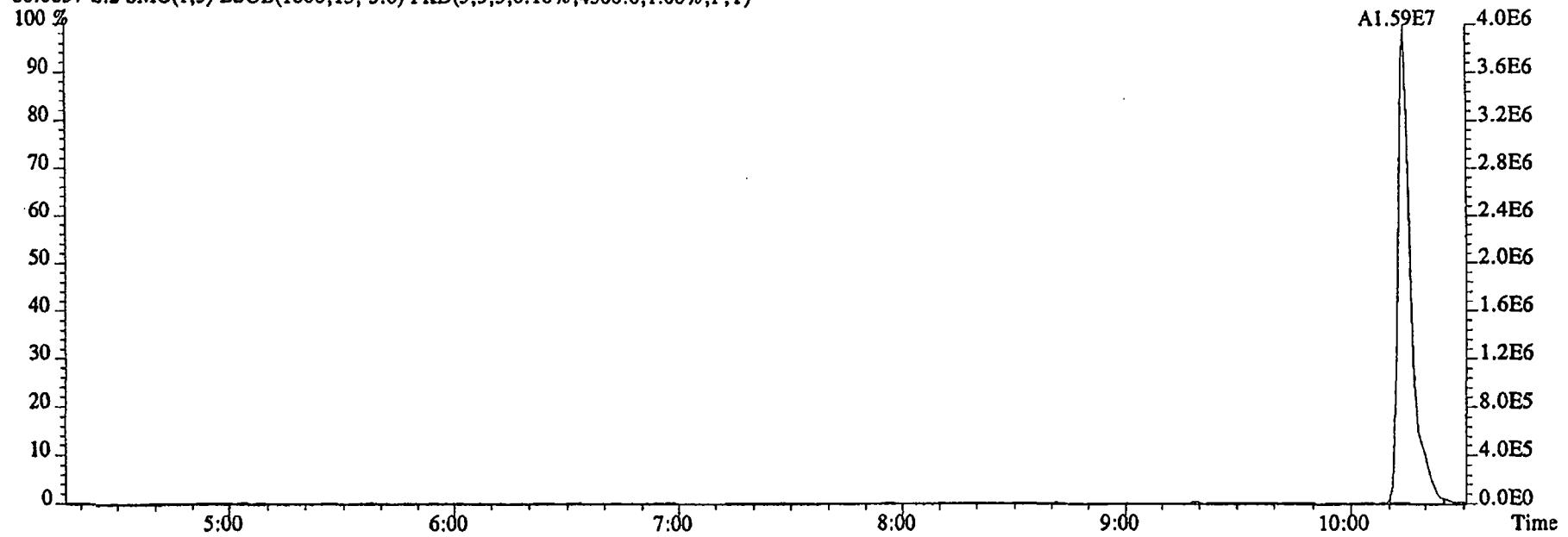
79.0253 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4116.0,1.00%,F,T)



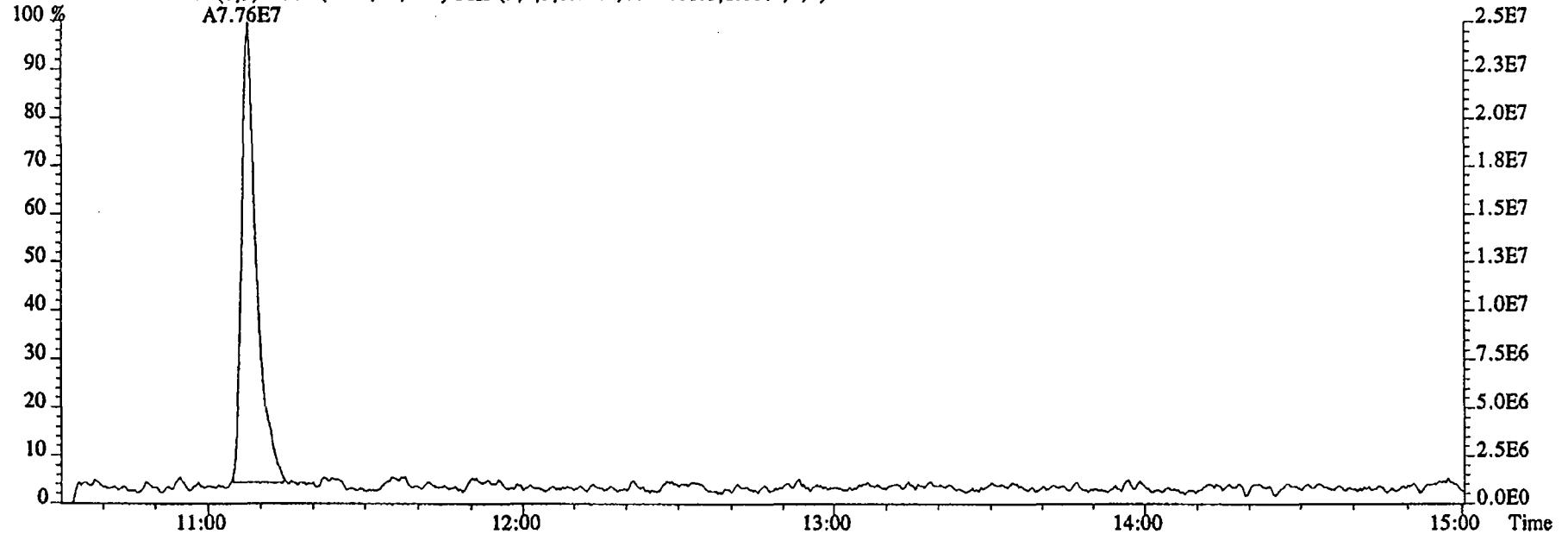
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:51:55 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
74.0480 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19040.0,1.00%,F,T)



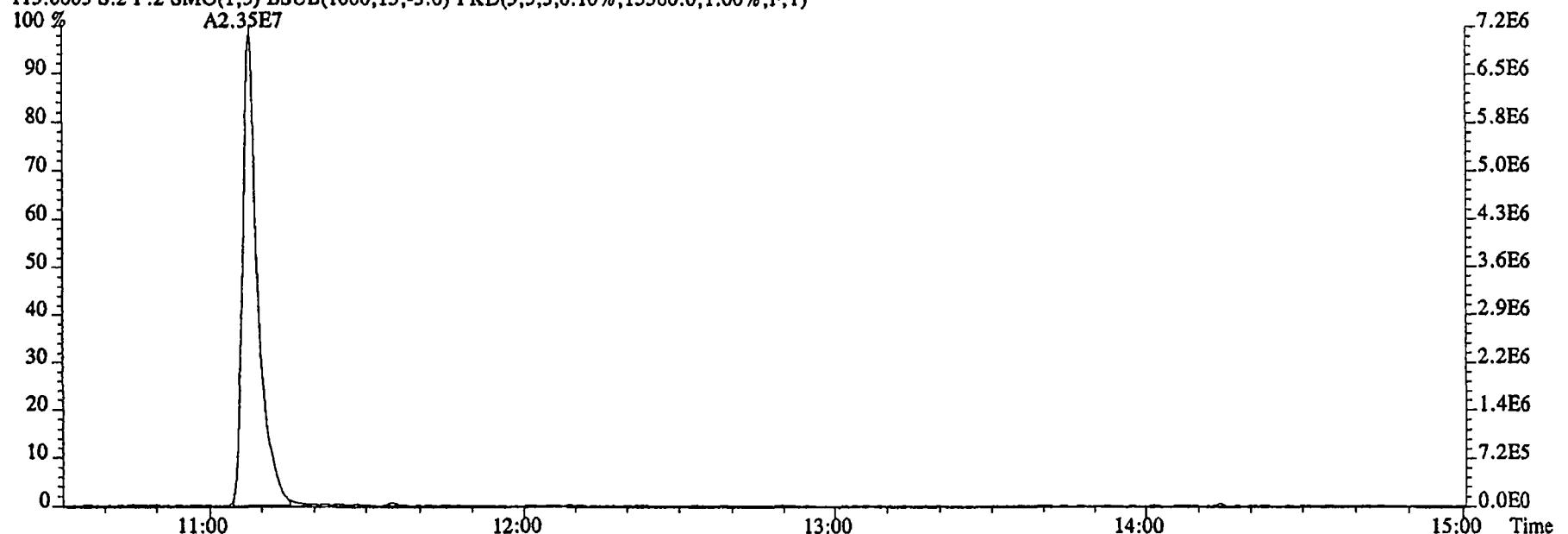
80.0857 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4500.0,1.00%,F,T)



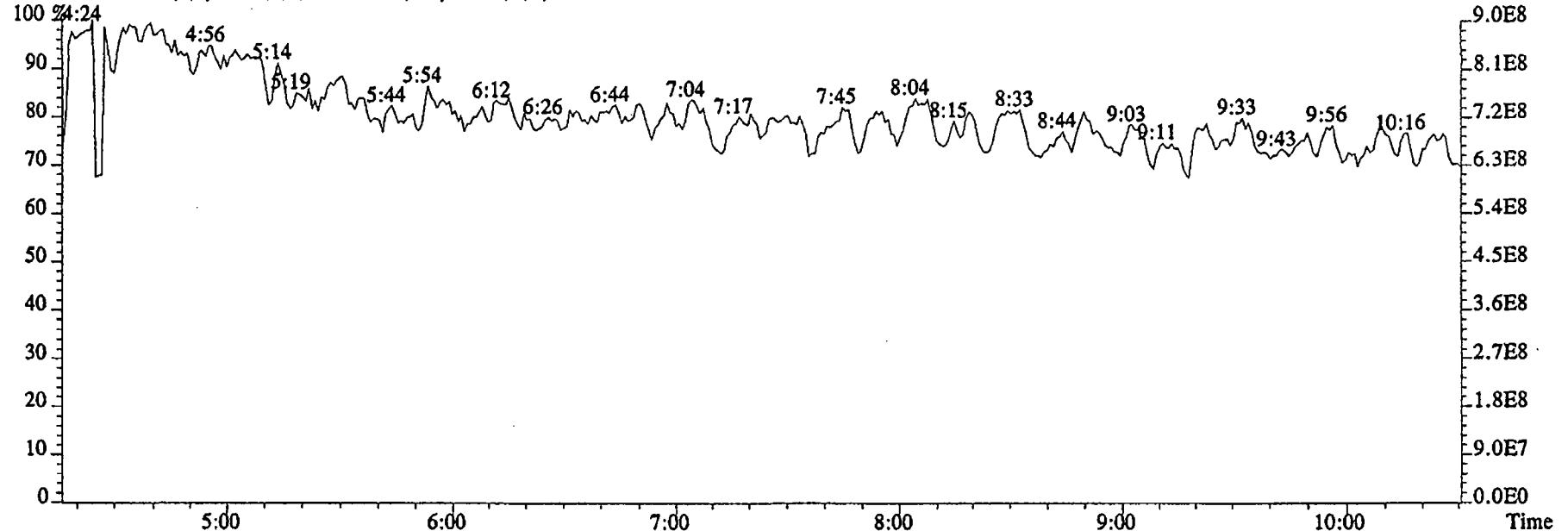
File:08DE045SP #1-626 Acq: 8-DEC-2004 16:51:55 GC El+ Voltage SIR 70SE
Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
113.0032 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1139400.0,1.00%,F,T)



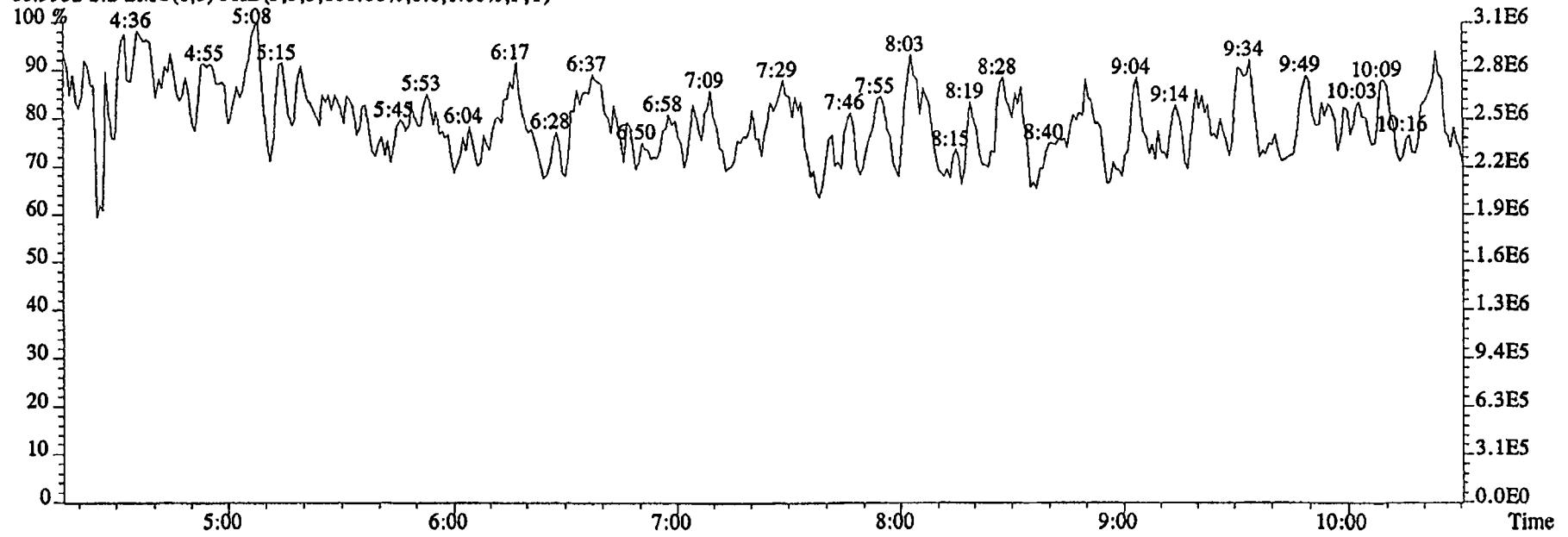
115.0003 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15560.0,1.00%,F,T)



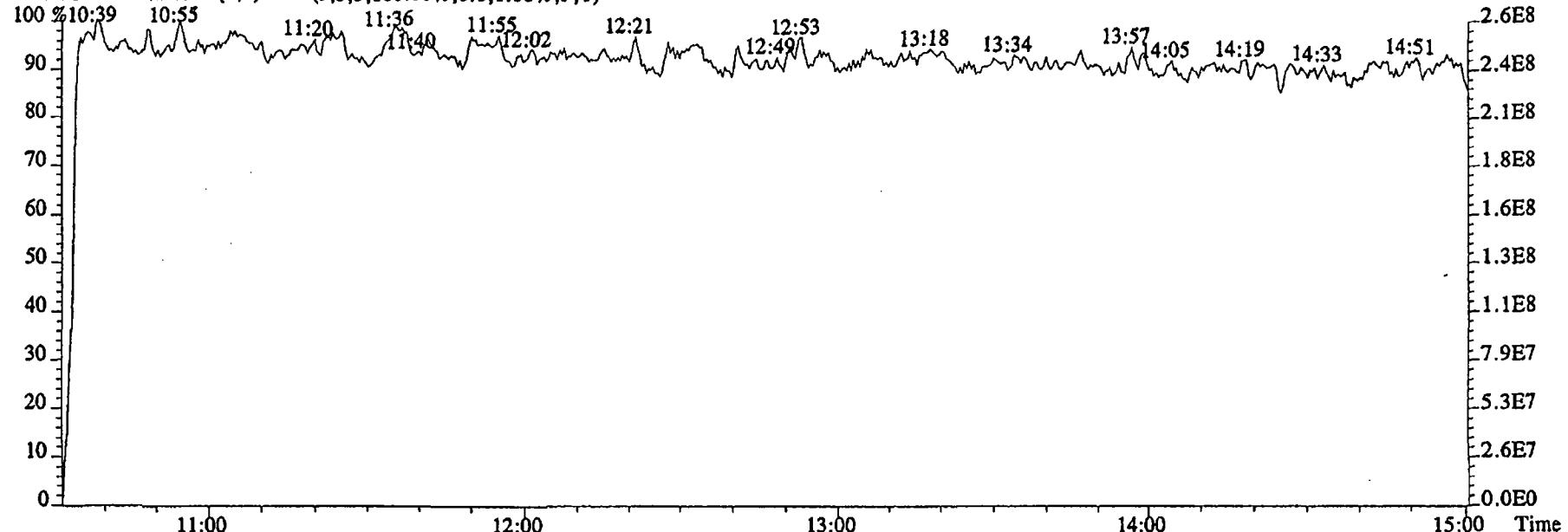
File:08DE045SP #1-462 Acq: 8-DEC-2004 16:51:55 GC El+ Voltage SIR 70SE
 Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
 68.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



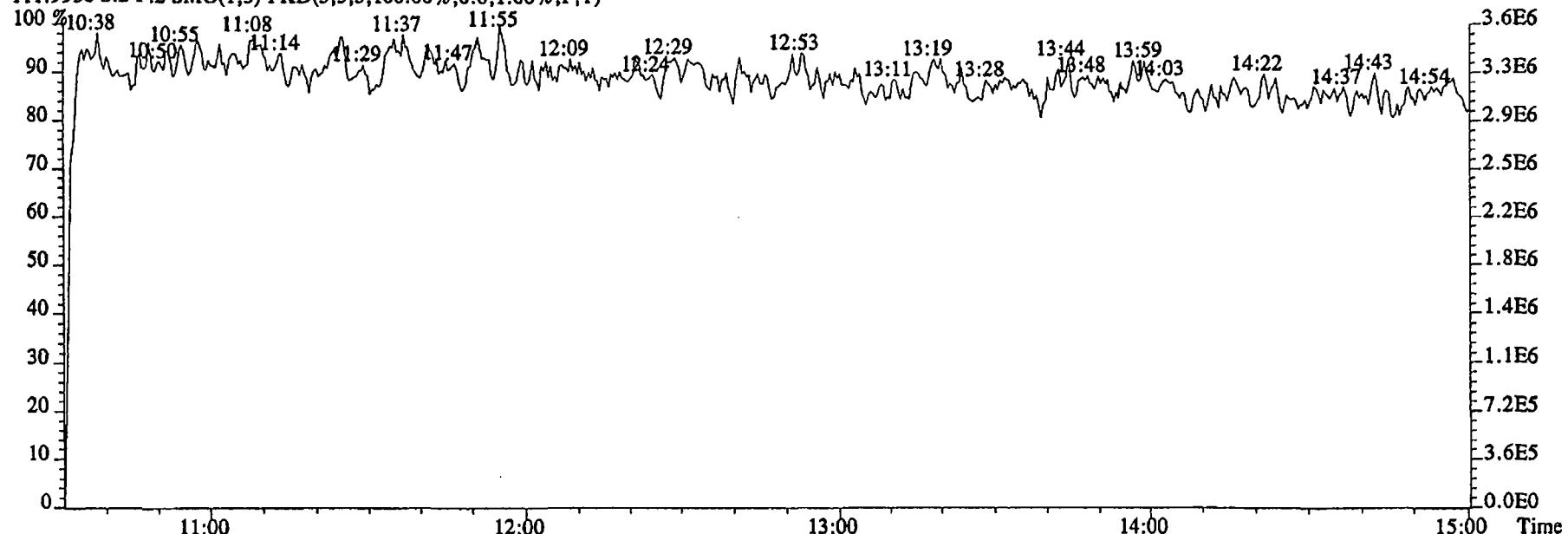
80.9952 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



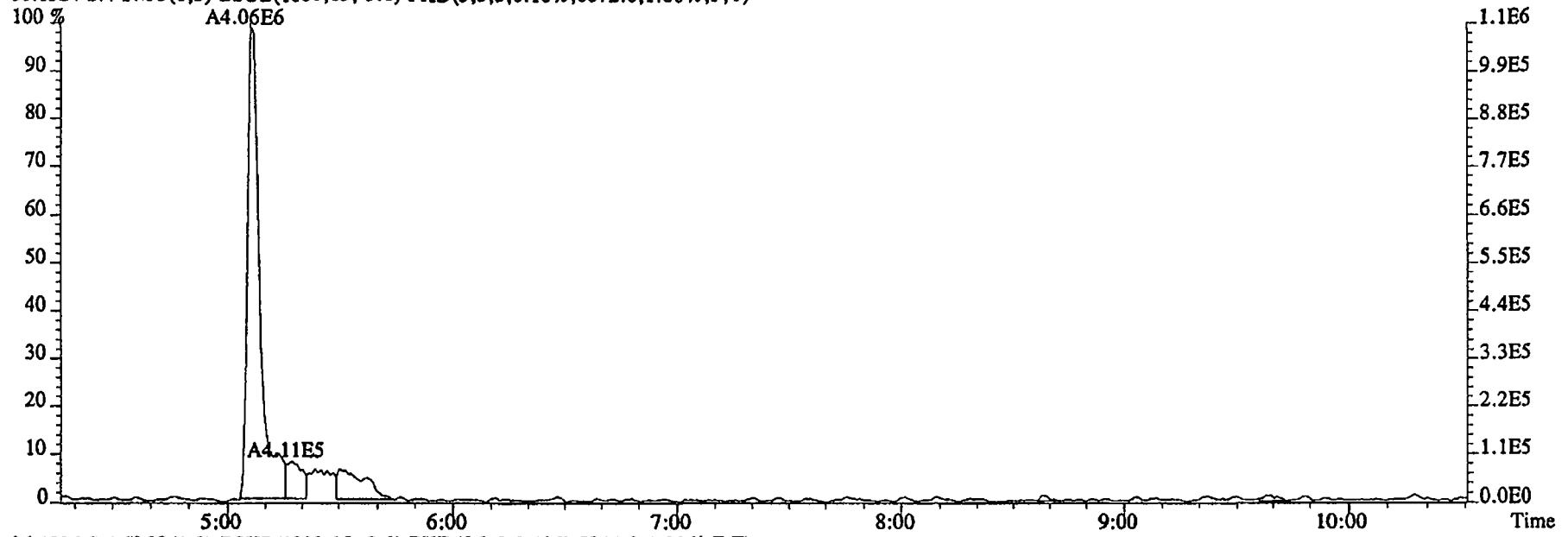
File:08DE045SP #1-626 Acq: 8-DEC-2004 16:51:55 GC El+ Voltage SIR 70SE
Sample#2 Text:ST1208A :CS2 2350-68B Exp:NDMAVOA
118.9920 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



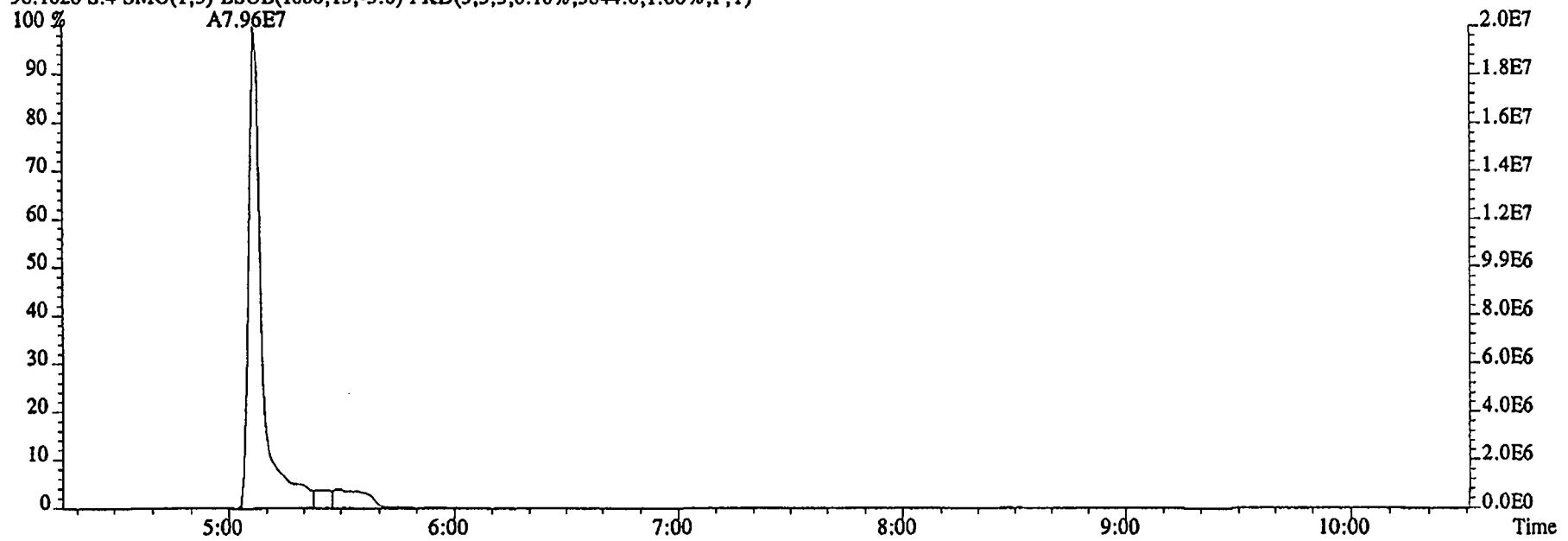
111.9936 S:2 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



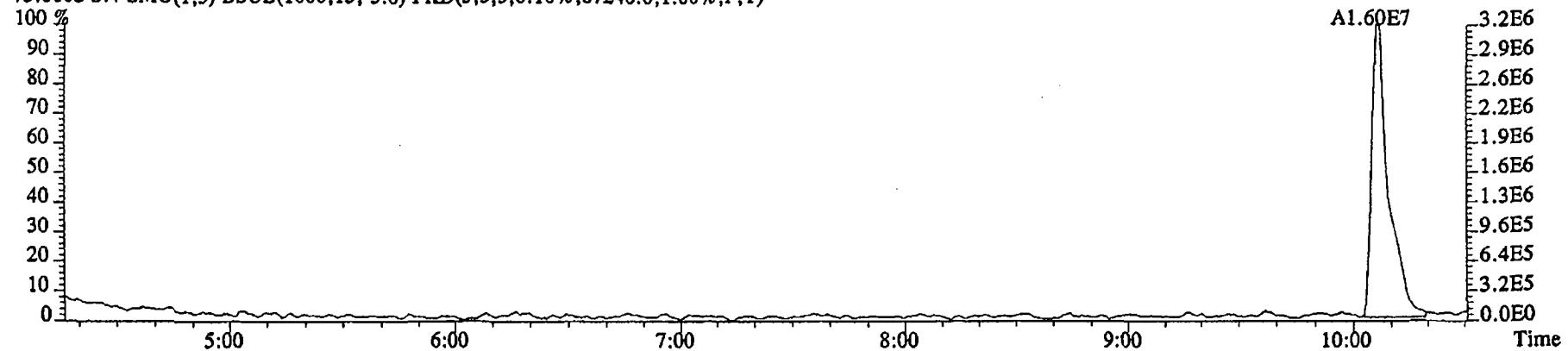
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:37:04 GC El+ Voltage SIR 70SE
Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
88.0524 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8072.0,1.00%,F,T)



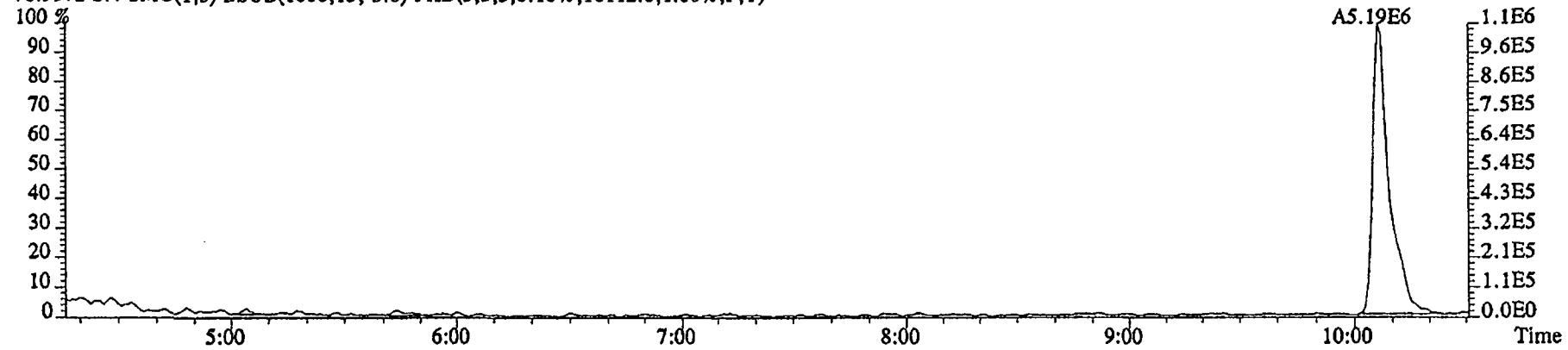
96.1026 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5844.0,1.00%,F,T)



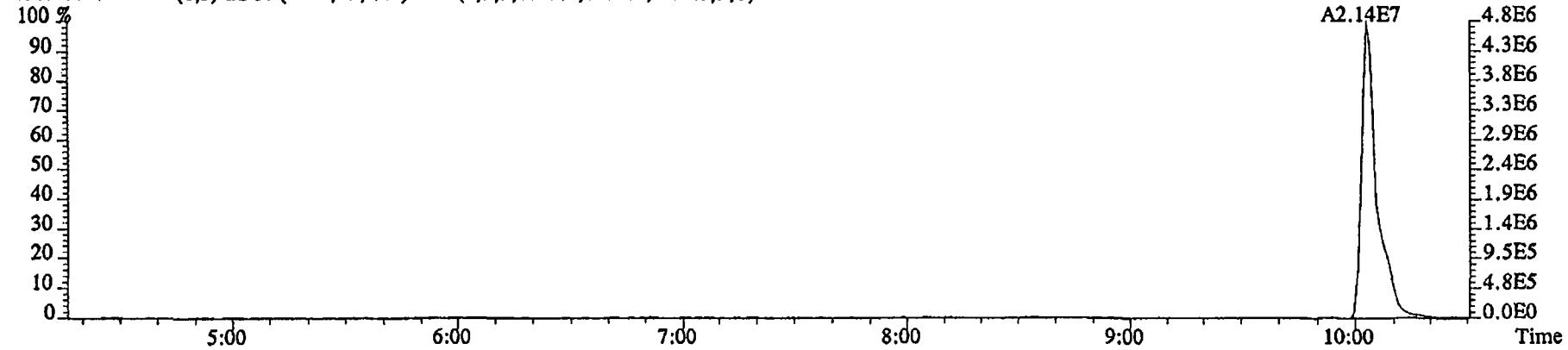
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:37:04 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
75.0002 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,67240.0,1.00%,F,T)



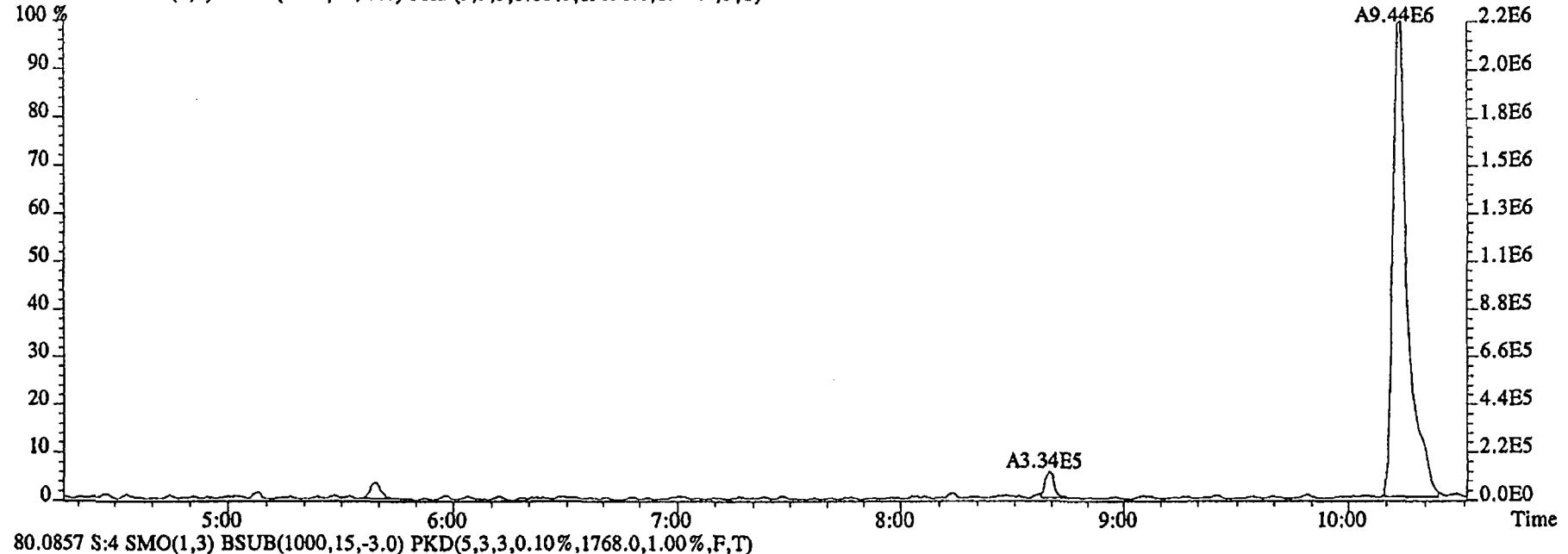
76.9972 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10112.0,1.00%,F,T)



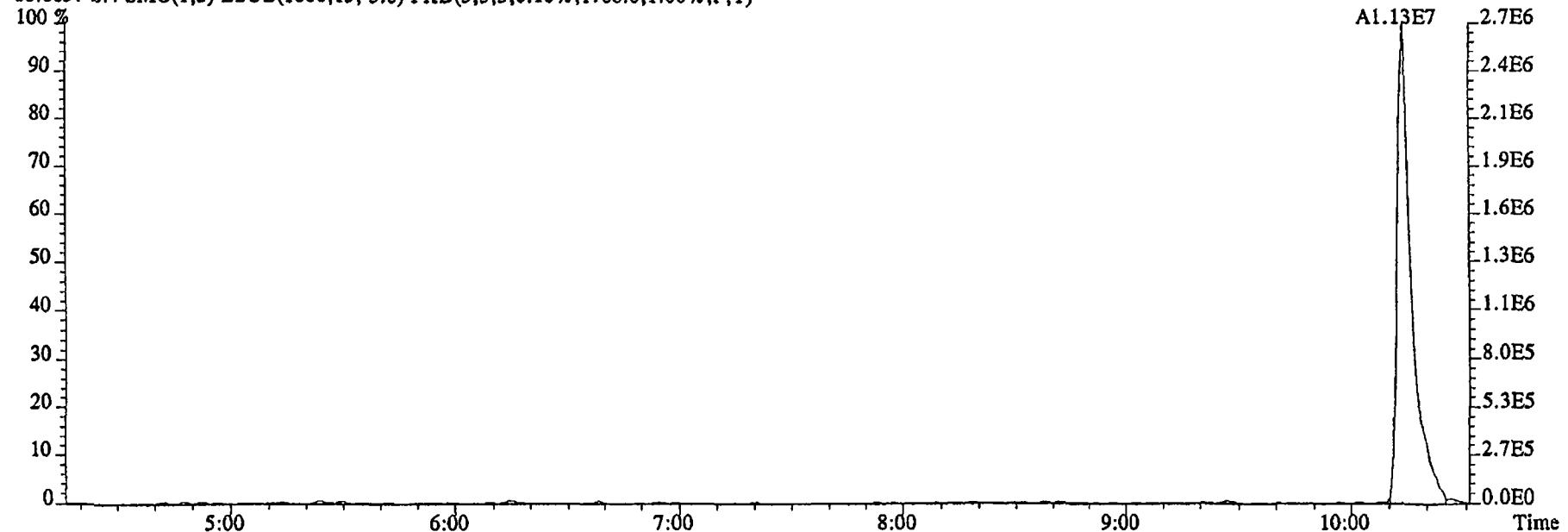
79.0253 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6032.0,1.00%,F,T)



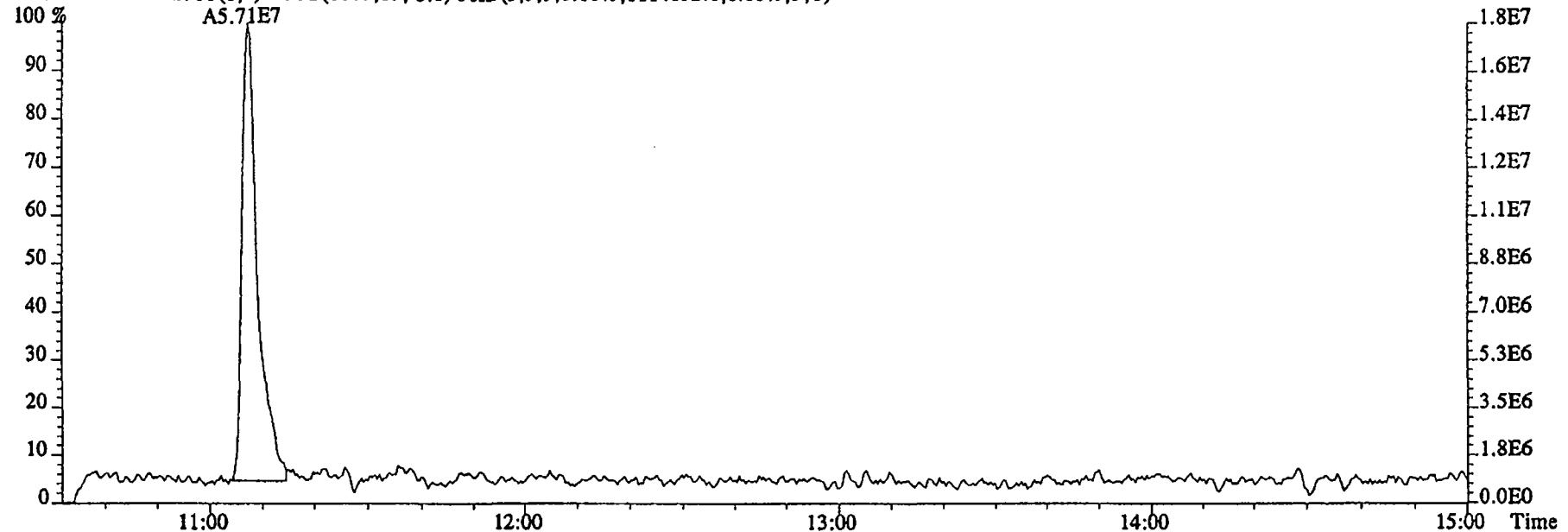
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:37:04 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
74.0480 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19096.0,1.00%,F,T)



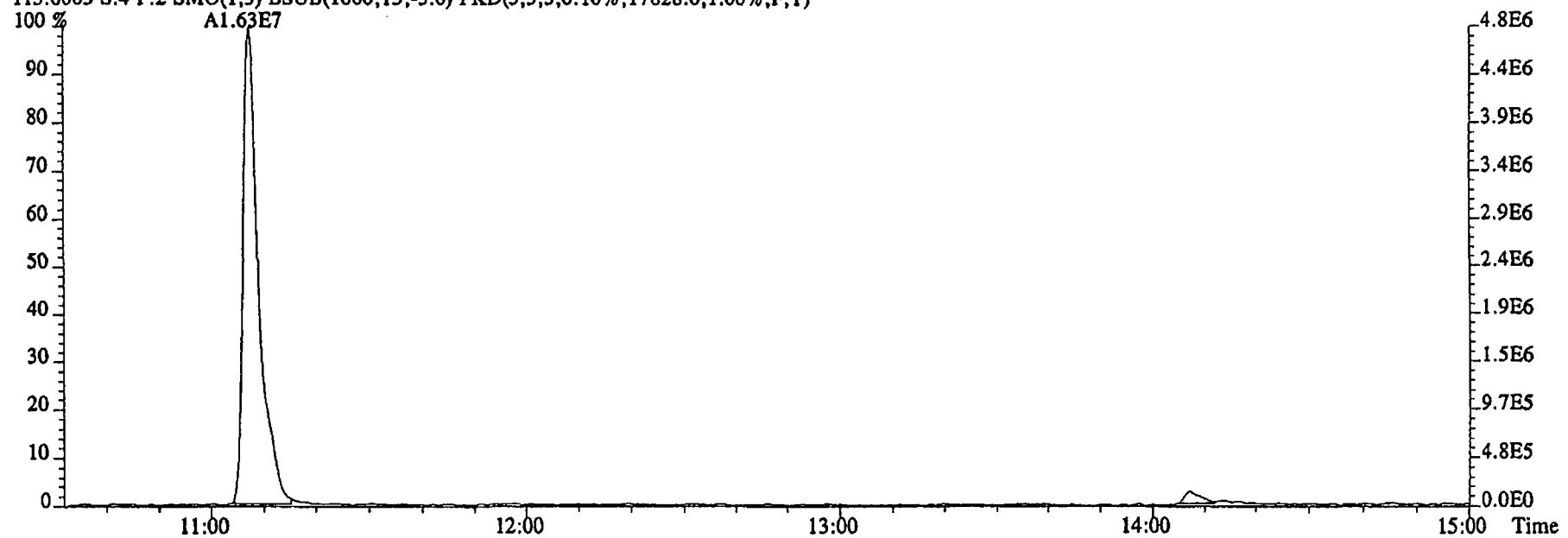
80.0857 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1768.0,1.00%,F,T)



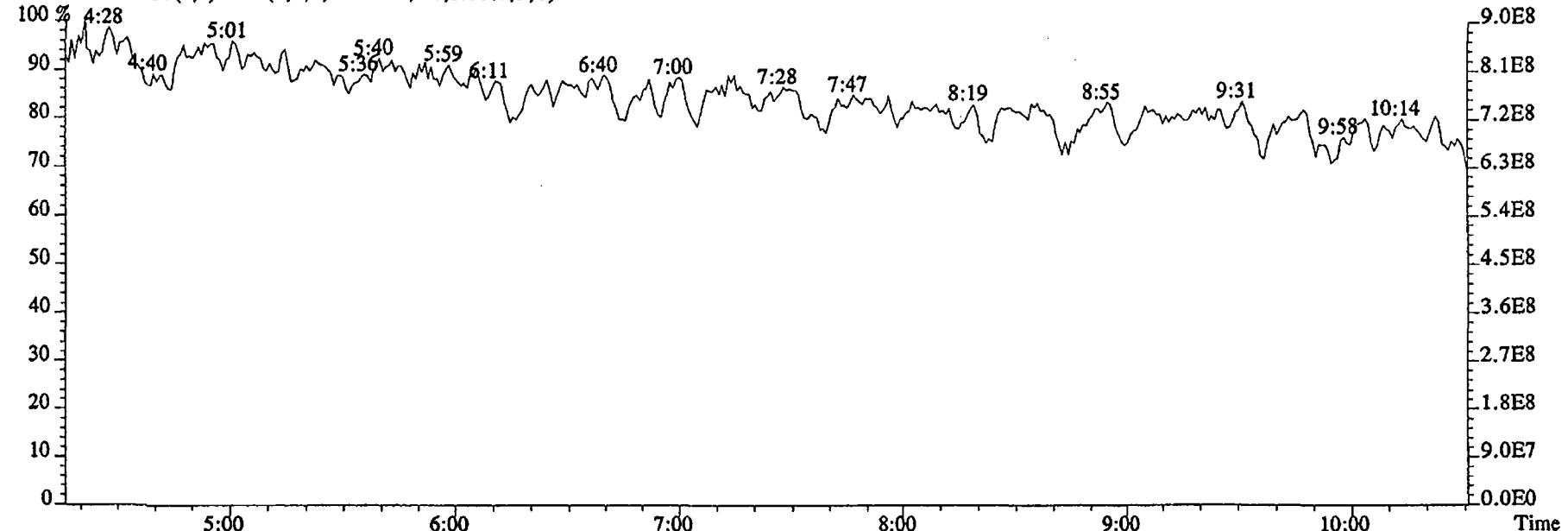
File:08DE045SP #1-625 Acq: 8-DEC-2004 17:37:04 GC EI + Voltage SIR 70SE
Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
113.0032 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1114852.0,1.00%,F,T)



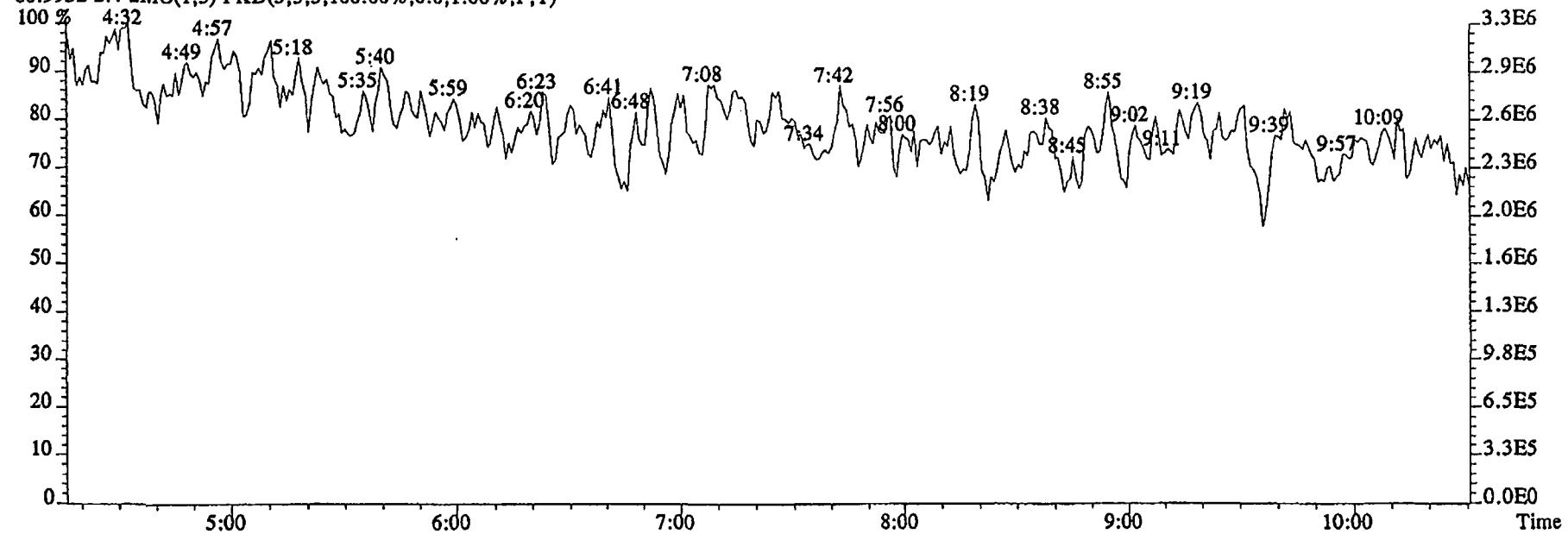
115.0003 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17828.0,1.00%,F,T)



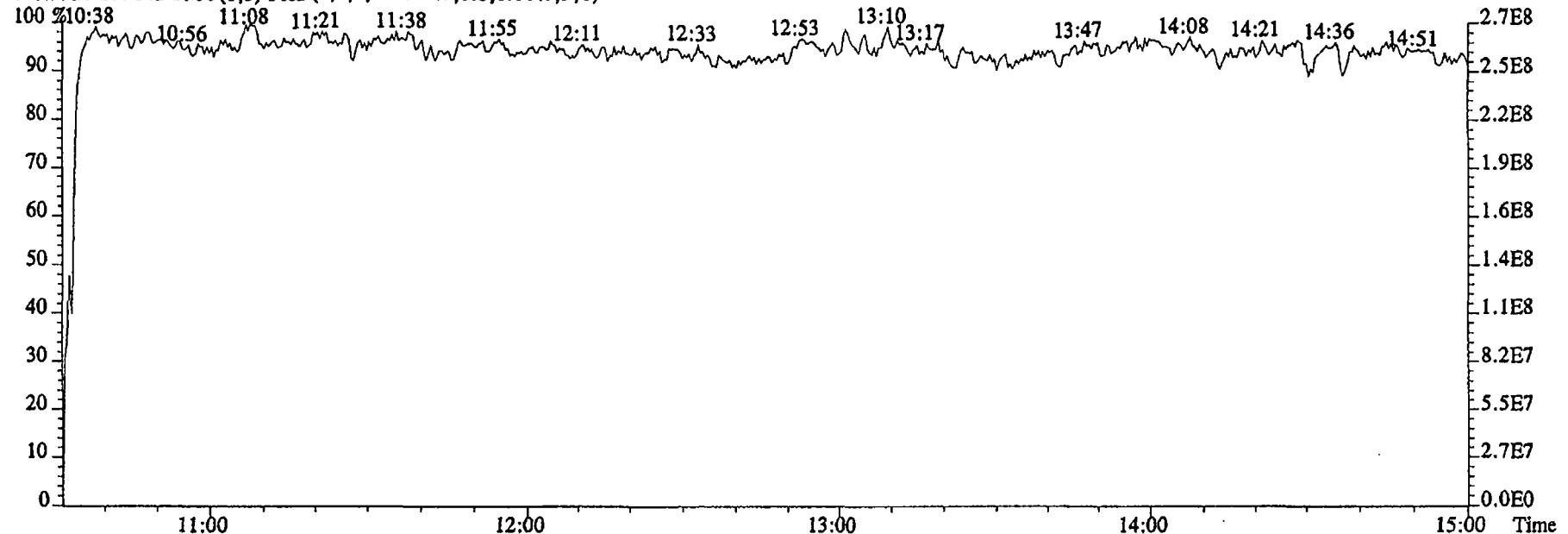
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:37:04 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
 68.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



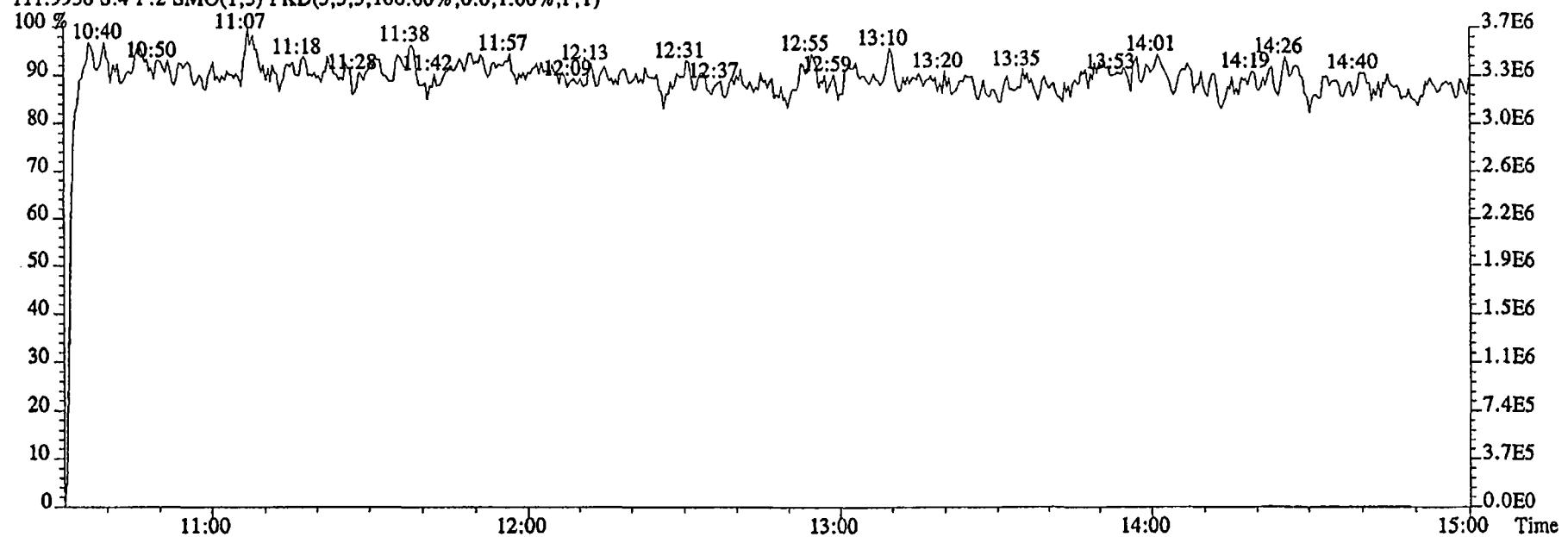
80.9952 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



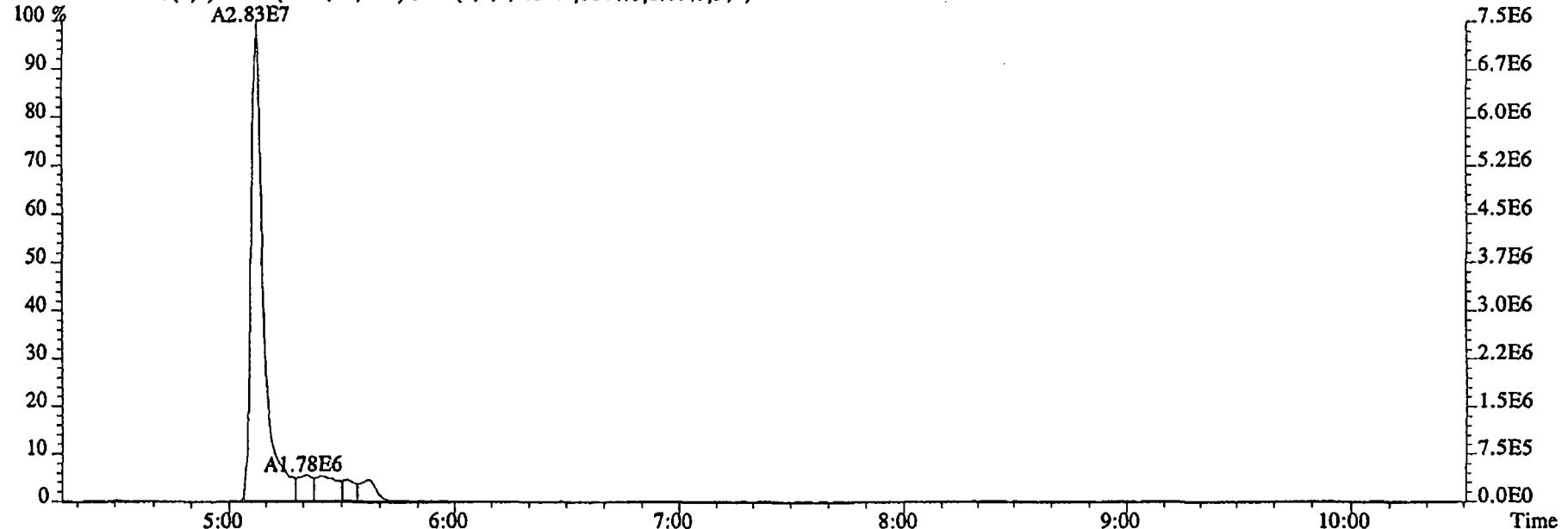
File:08DE045SP #1-625 Acq: 8-DEC-2004 17:37:04 GC El+ Voltage SIR 70SE
Sample#4 Text:ST1208C :CS3 2350-68C Exp:NDMAVOA
118.9920 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



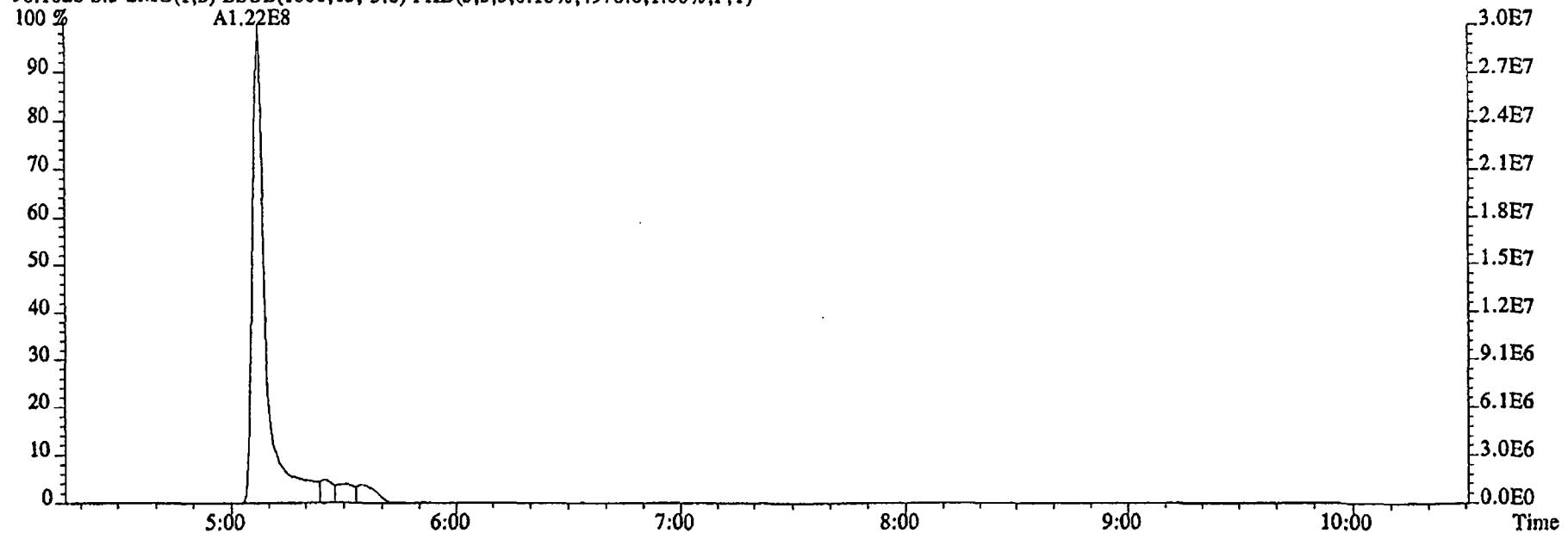
111.9936 S:4 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



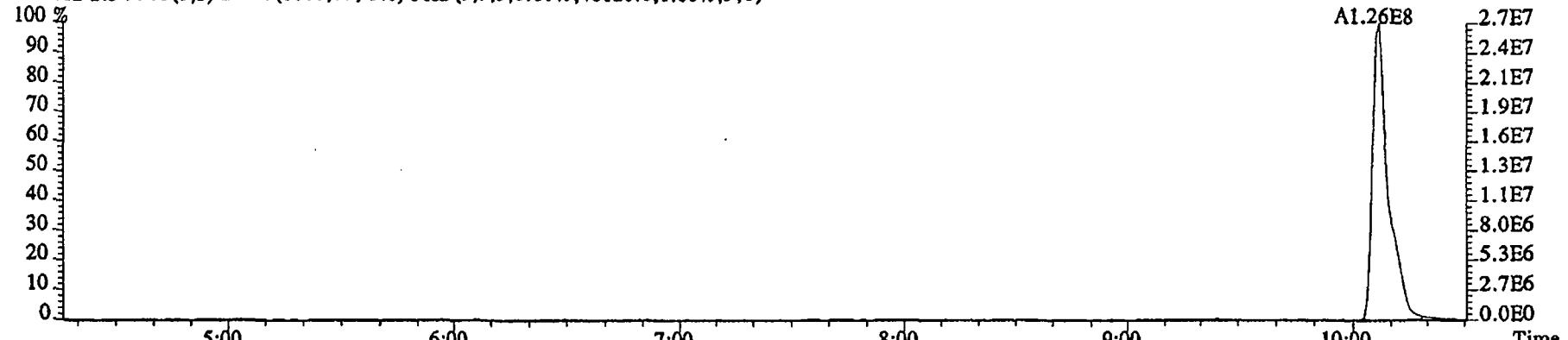
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAVOA
88.0524 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8644.0,1.00%,F,T)



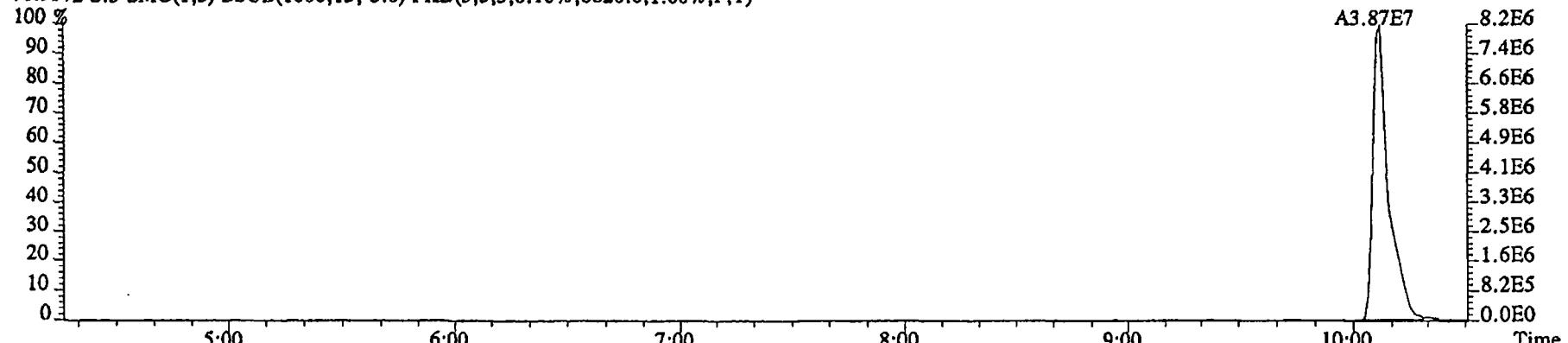
96.1026 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4976.0,1.00%,F,T)



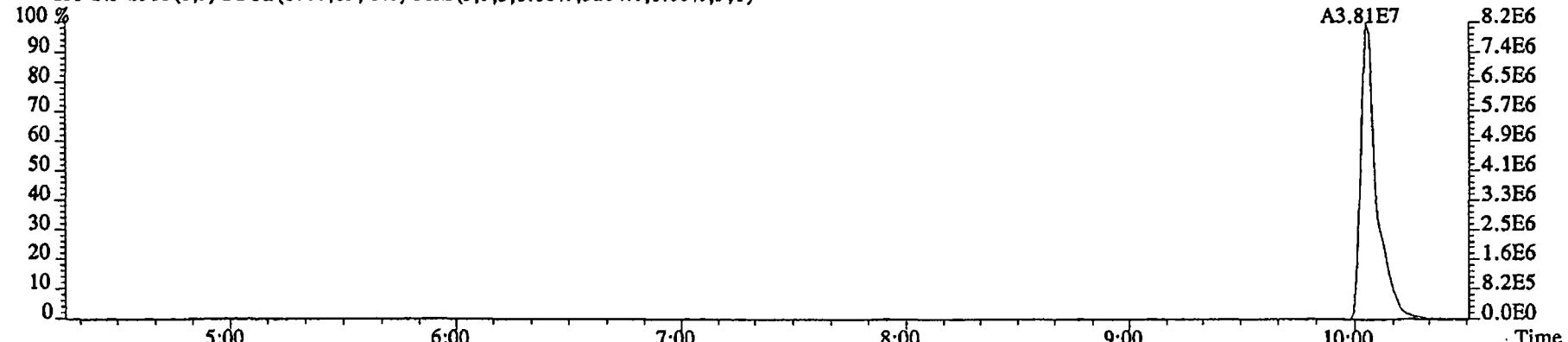
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAV0A
75.0002 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,46120.0,1.00%,F,T)



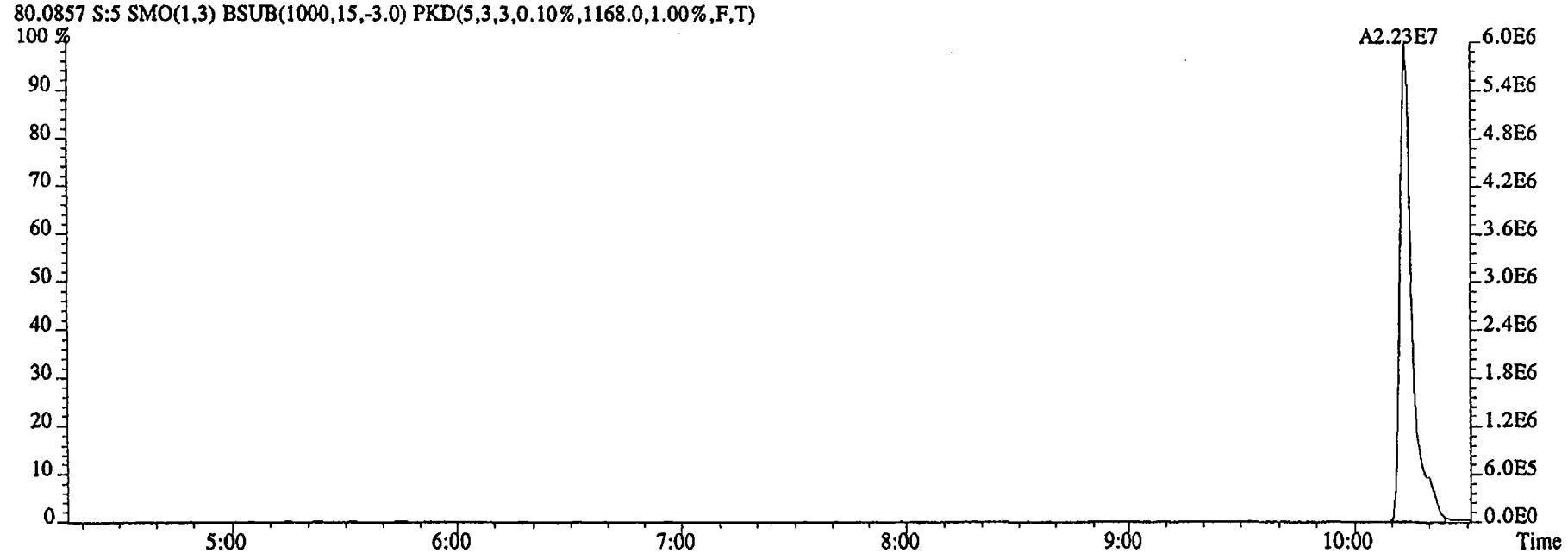
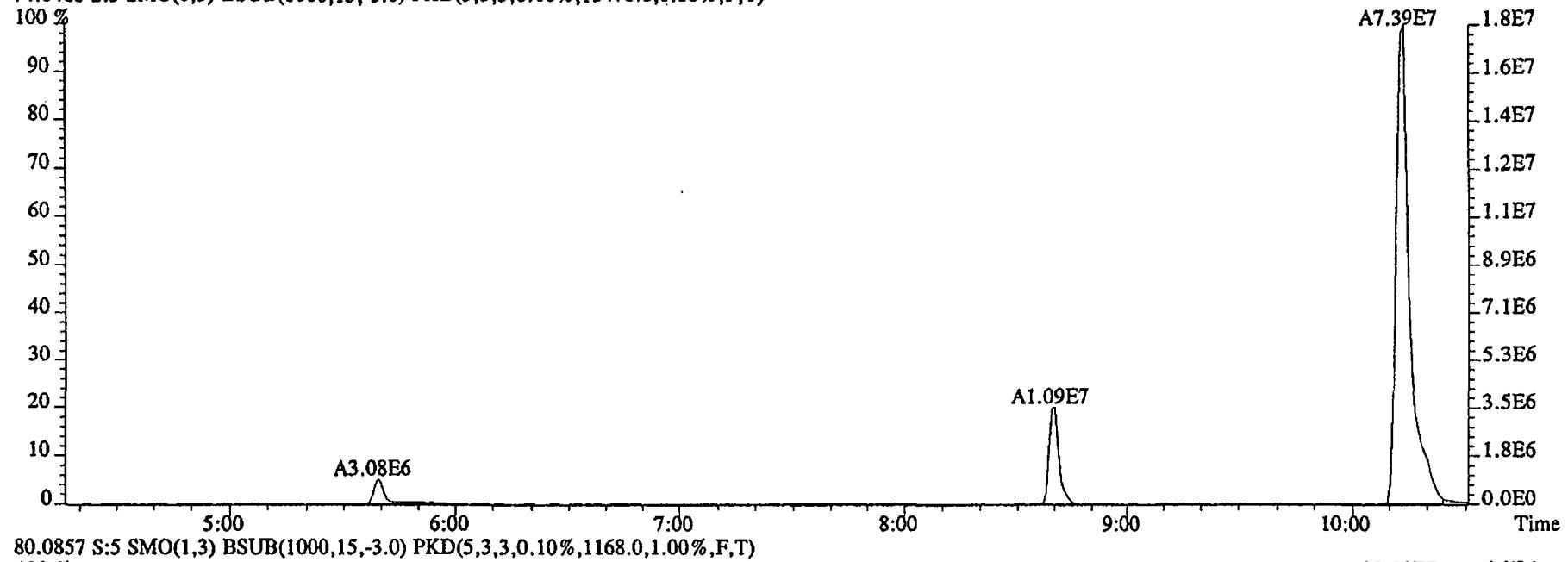
76.9972 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6820.0,1.00%,F,T)



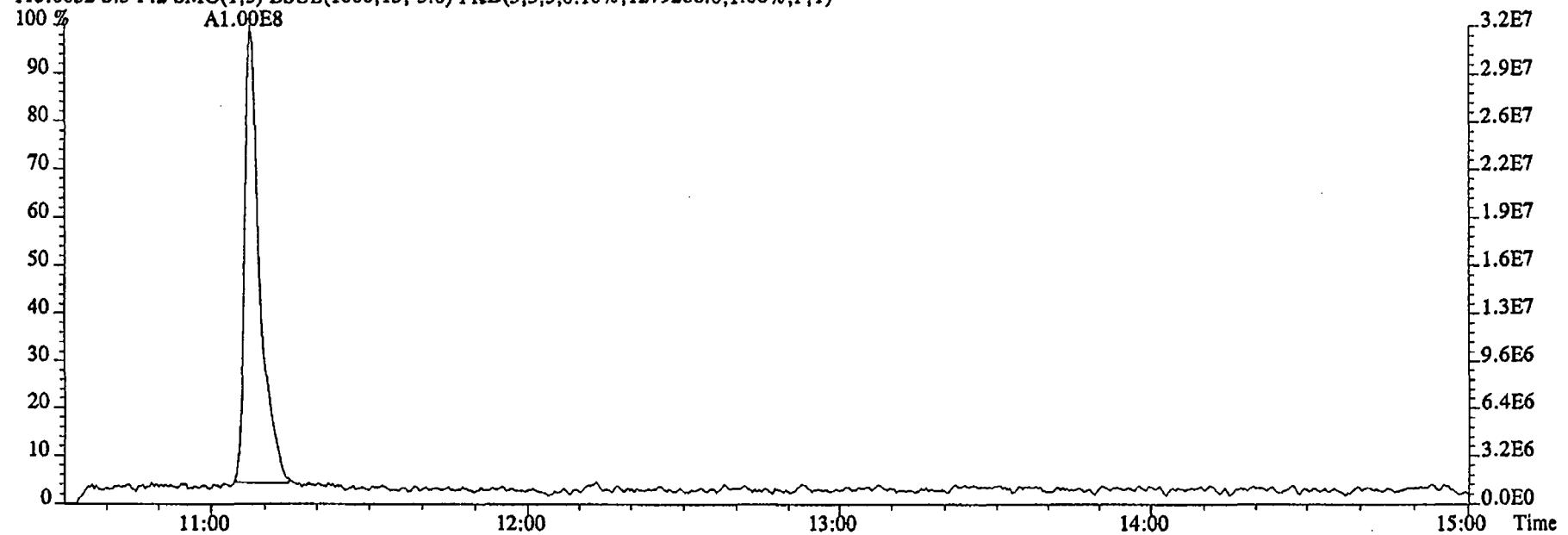
79.0253 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3204.0,1.00%,F,T)



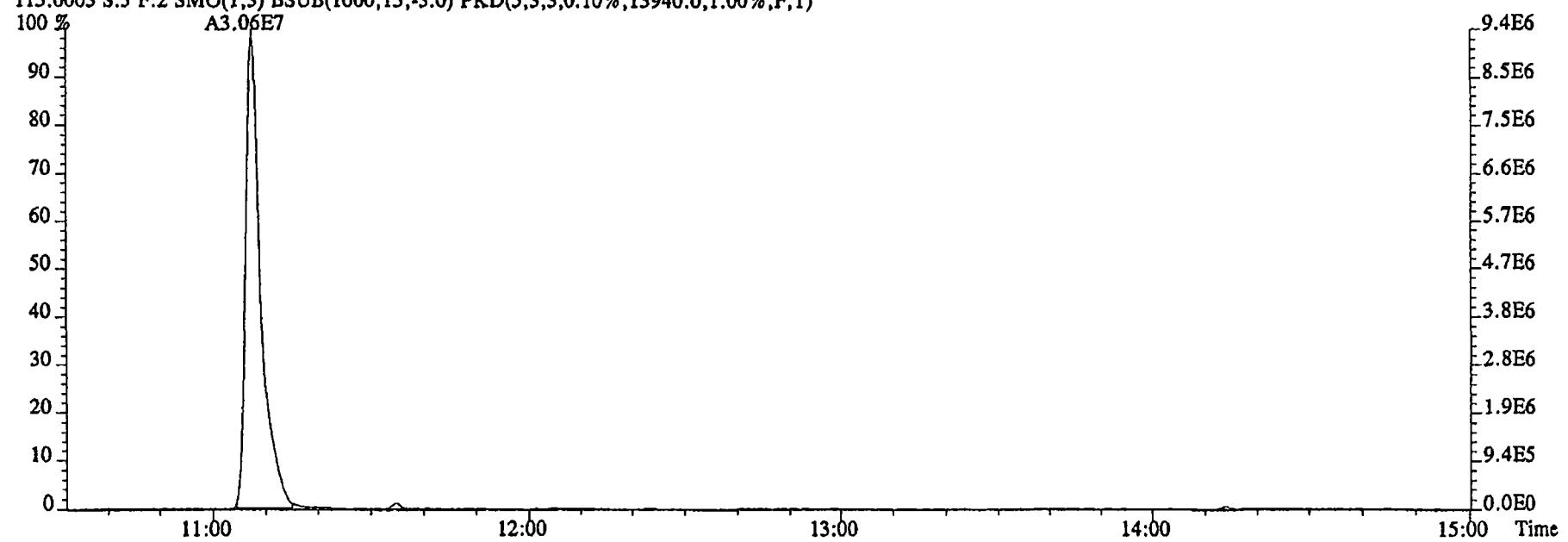
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAVOA
74.0480 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13476.0,1.00%,F,T)



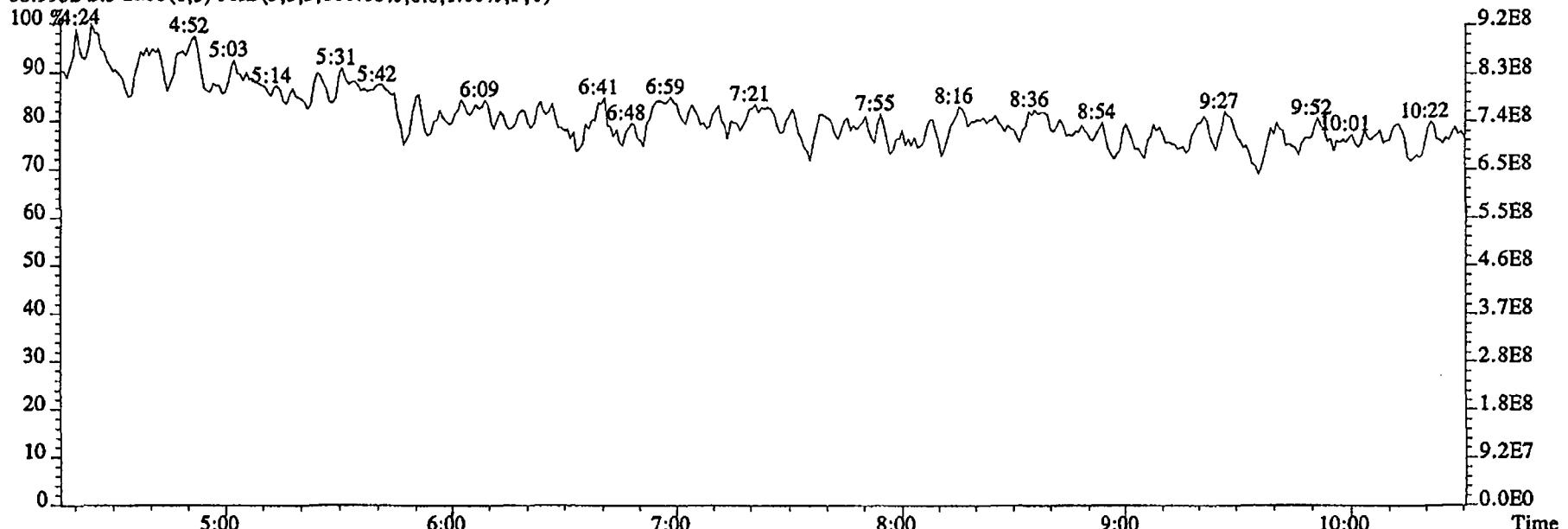
File:08DE045SP #1-625 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAVOA
113.0032 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1279288.0,1.00%,F,T)



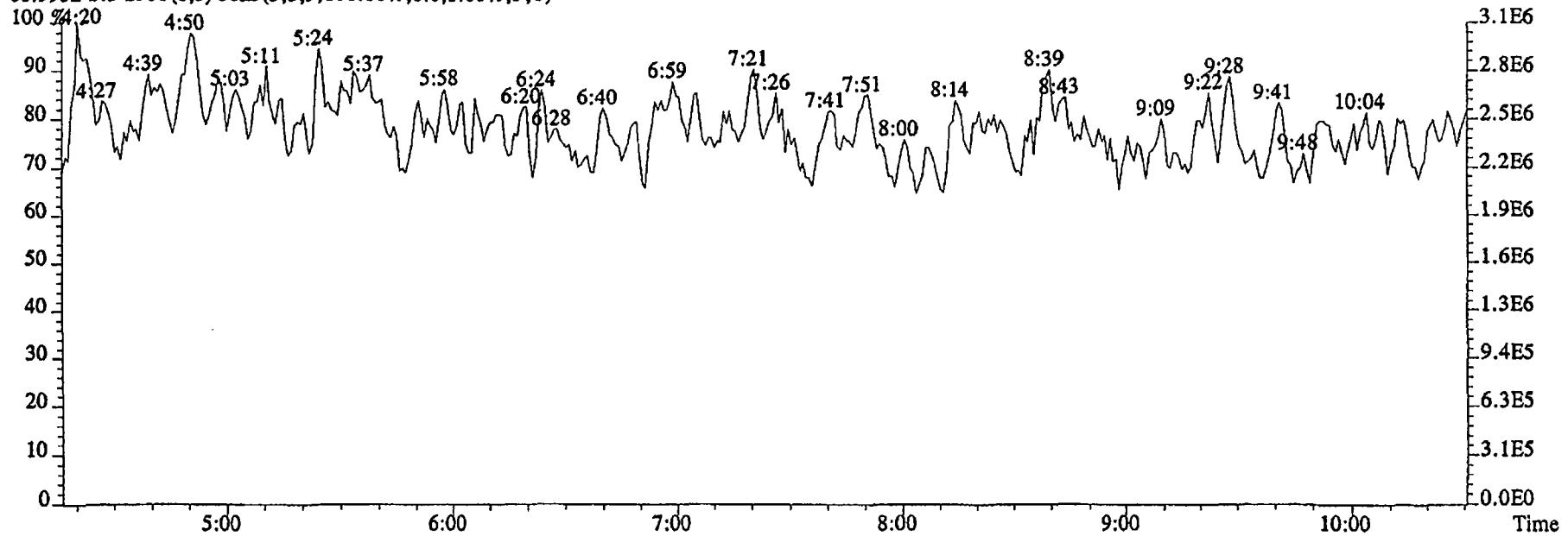
115.0003 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13940.0,1.00%,F,T)



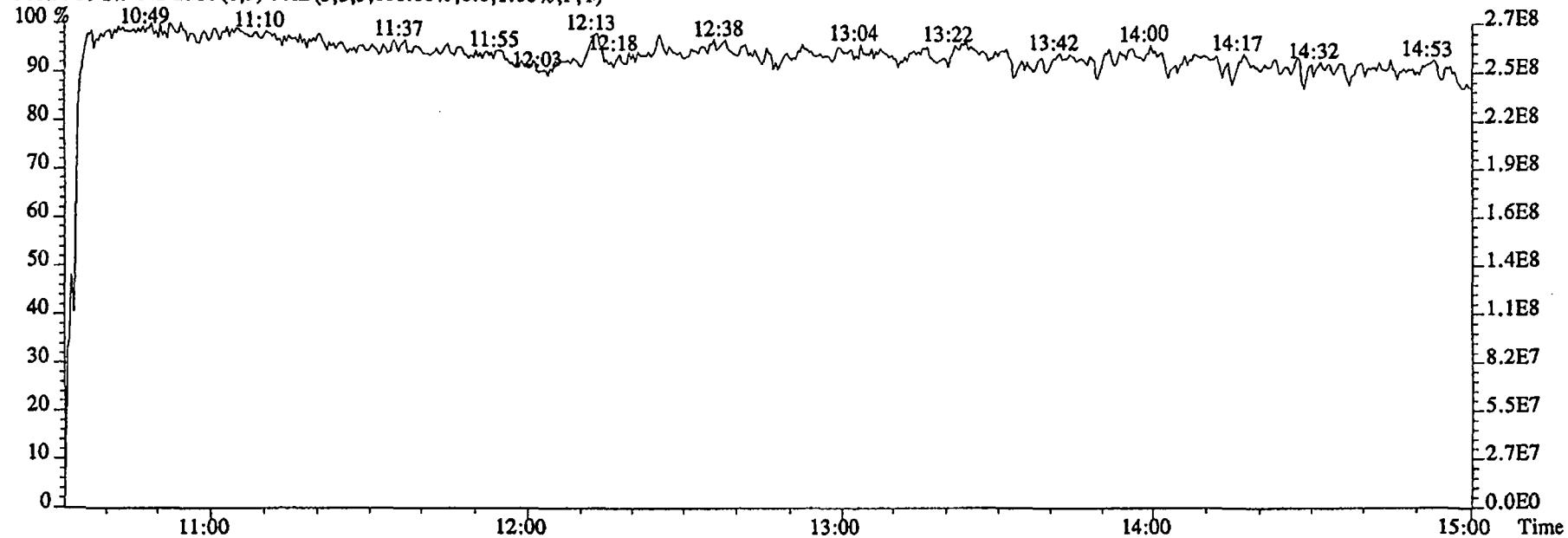
File:08DE045SP #1-462 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAVOA
 68.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



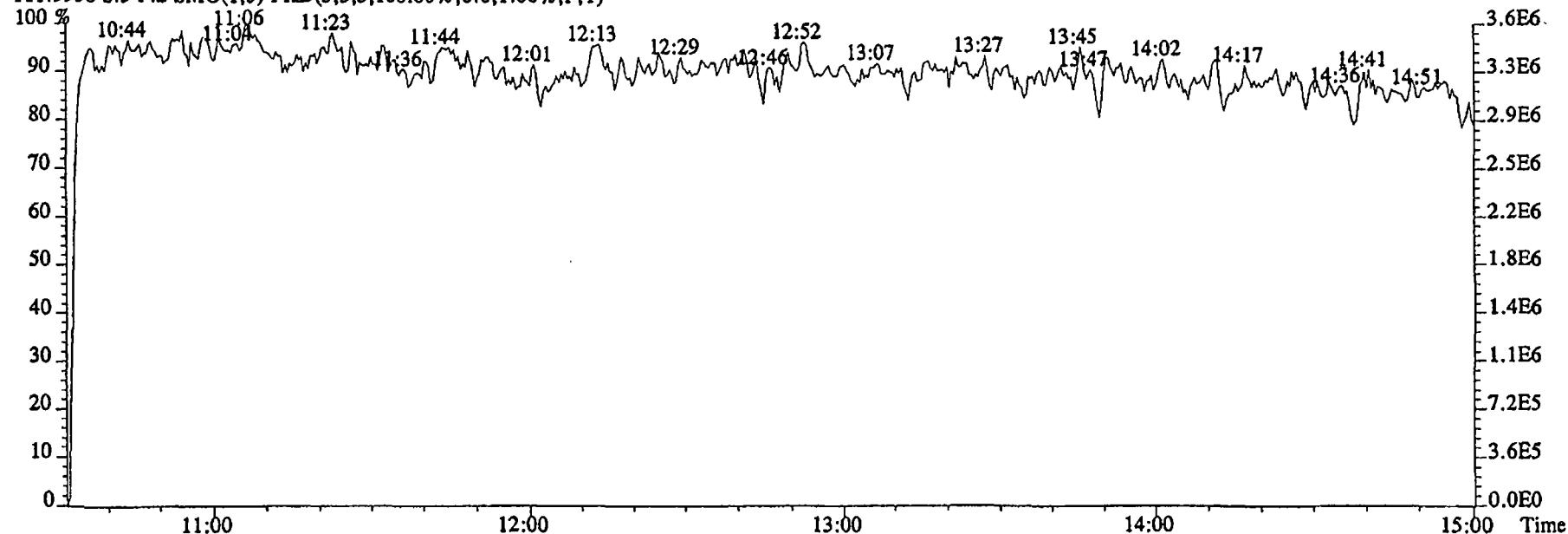
80.9952 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



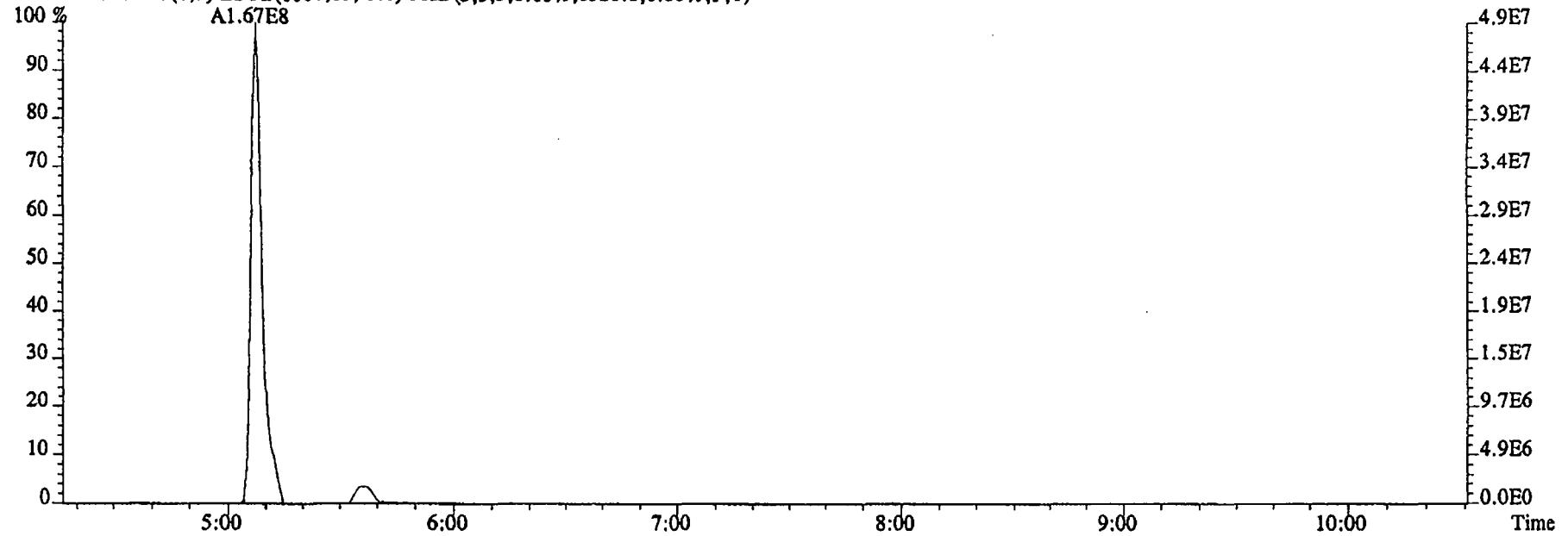
File:08DE045SP #1-625 Acq: 8-DEC-2004 17:57:28 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1208D :CS4 2350-68D Exp:NDMAVOA
118.9920 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



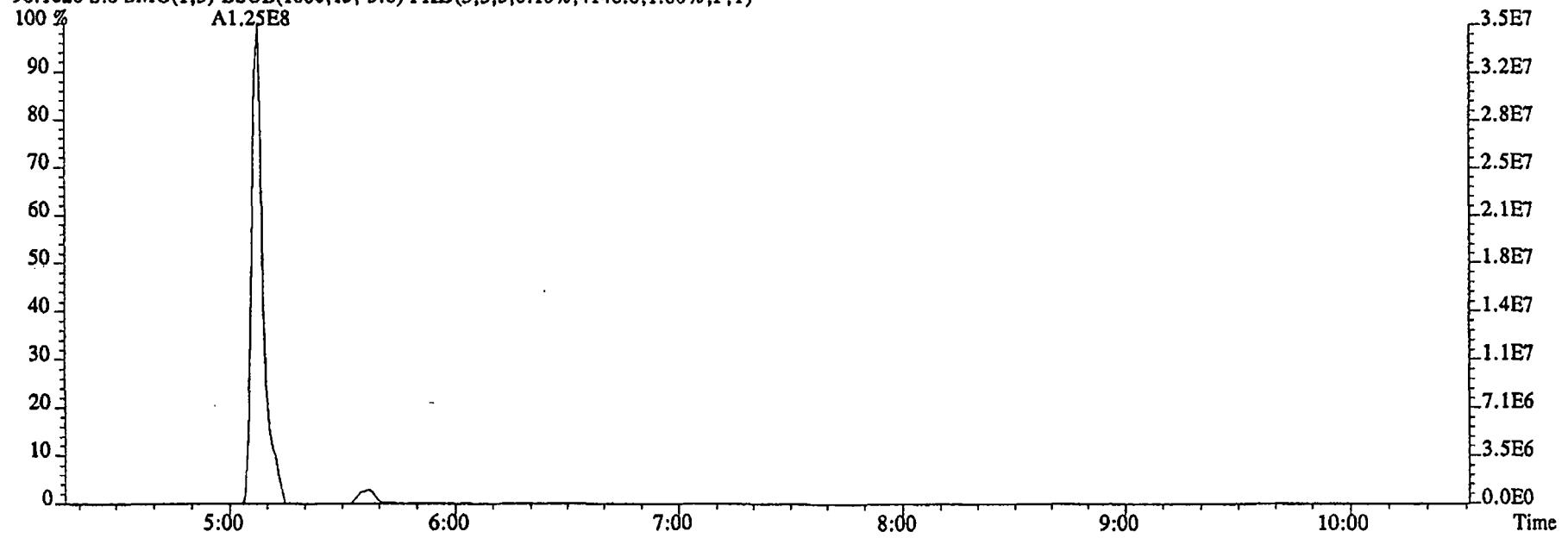
111.9936 S:5 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



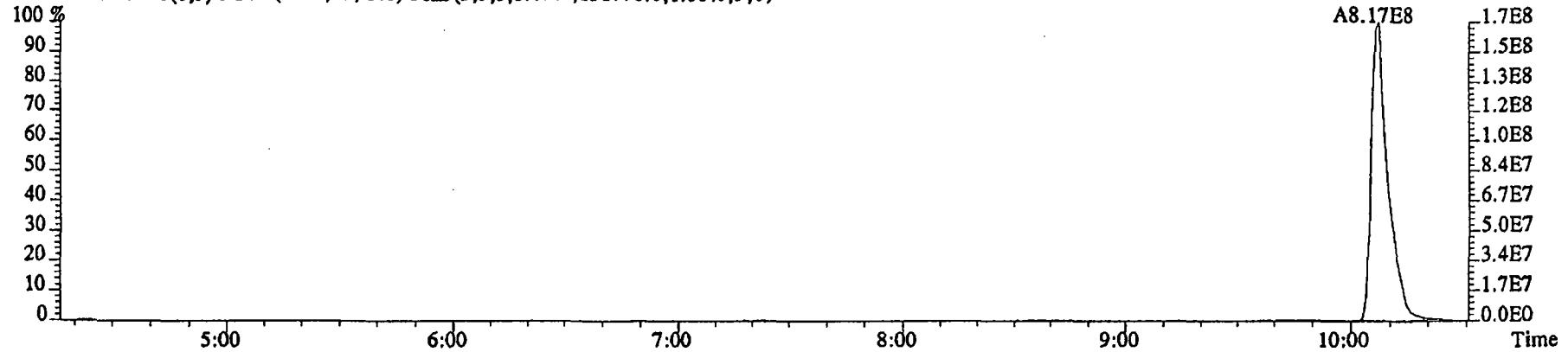
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:17:53 GC El+ Voltage SIR 70SE
Sample#6 Text:ST1208E :CS5 2350-68E Exp:NDMAVOA
88.0524 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8520.0,1.00%,F,T)



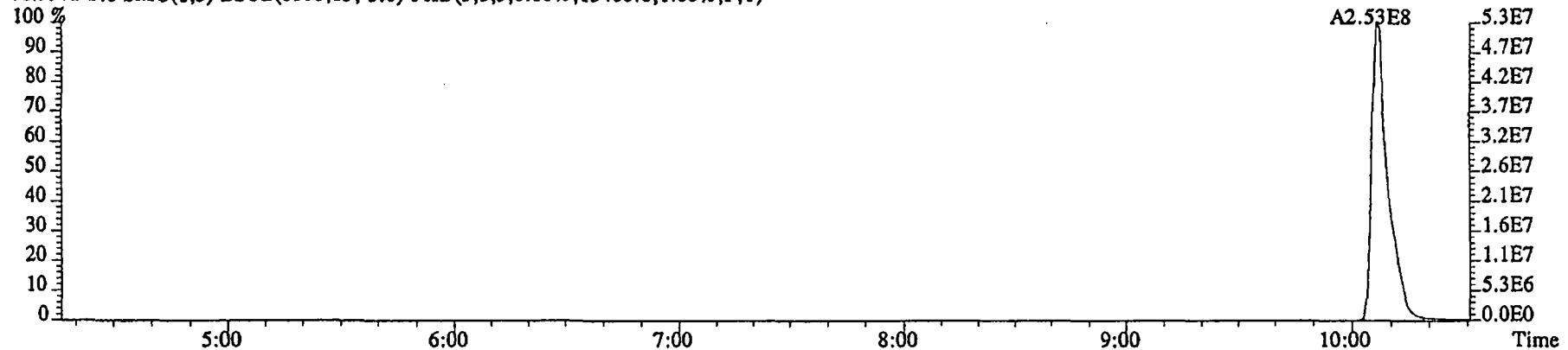
96.1026 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4148.0,1.00%,F,T)



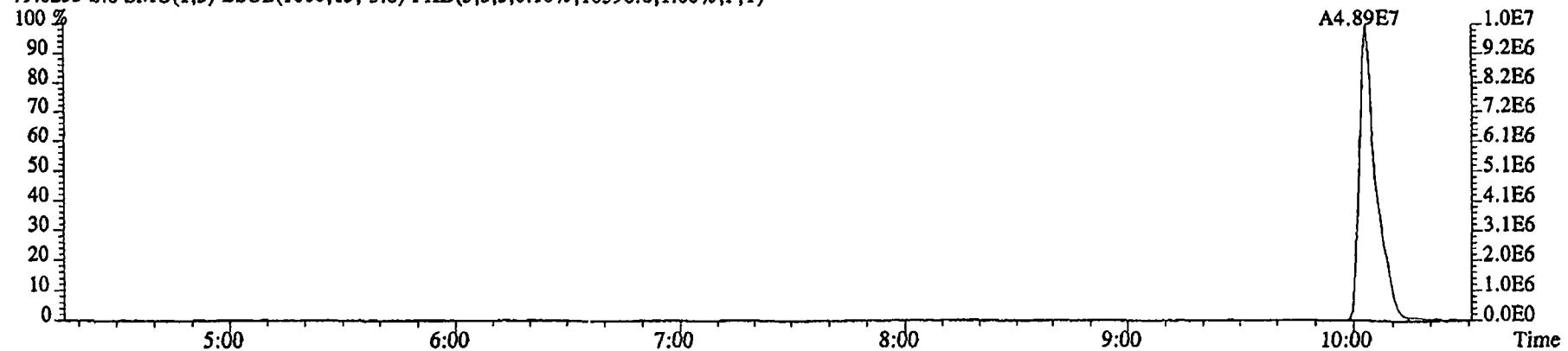
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:17:53 GC El+ Voltage SIR 70SE
Sample#6 Text:ST1208E .CS5 2350-68E Exp:NDMAVOA
75.0002 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,131776.0,1.00%,F,T)



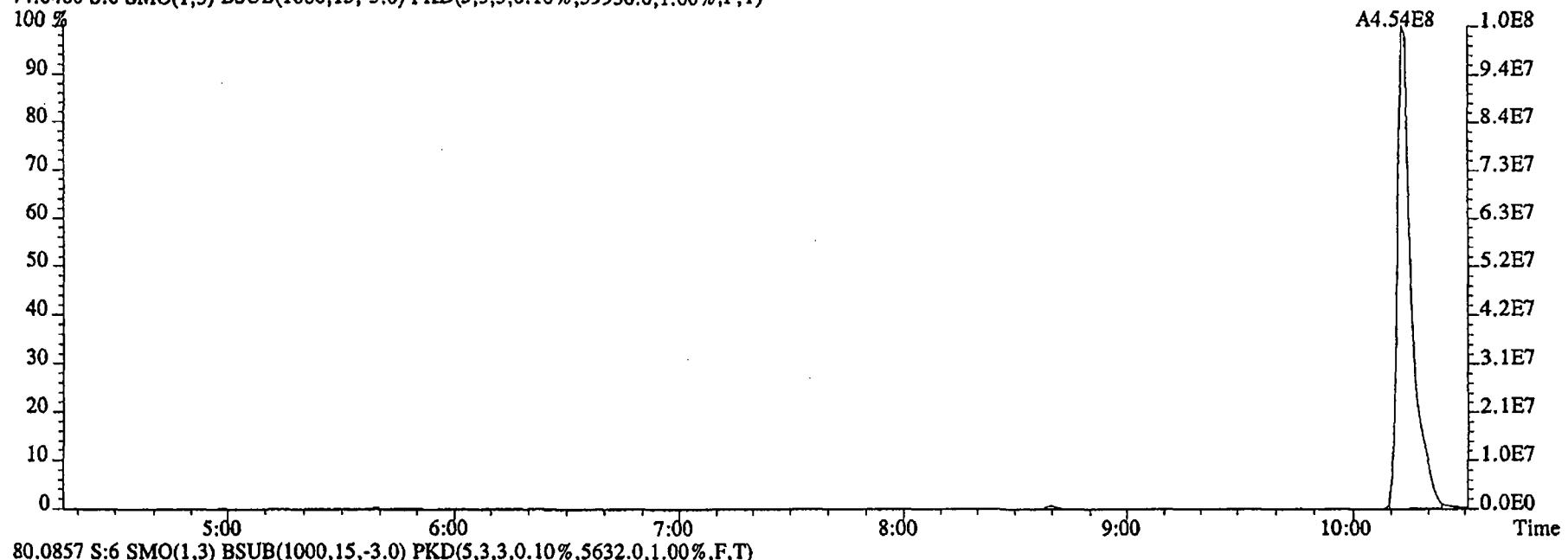
76.9972 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13400.0,1.00%,F,T)



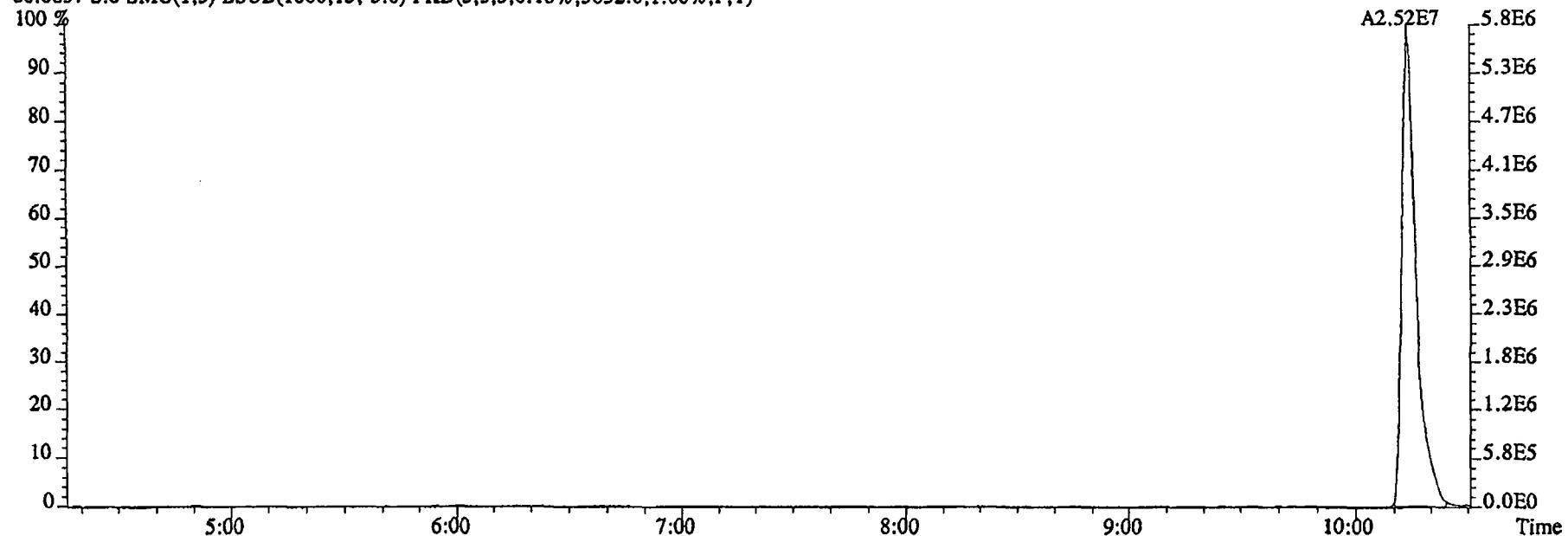
79.0253 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10596.0,1.00%,F,T)



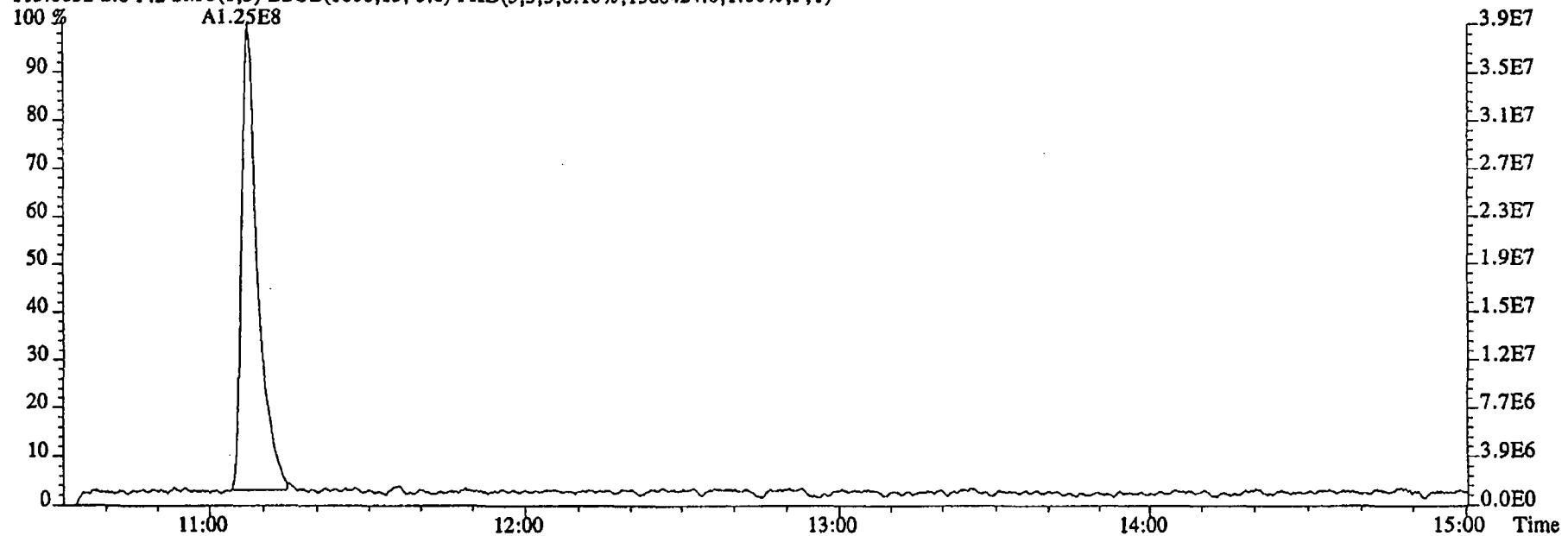
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:17:53 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1208E :CS5 2350-68E Exp:NDMAVOA
74.0480 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,59956.0,1.00%,F,T)



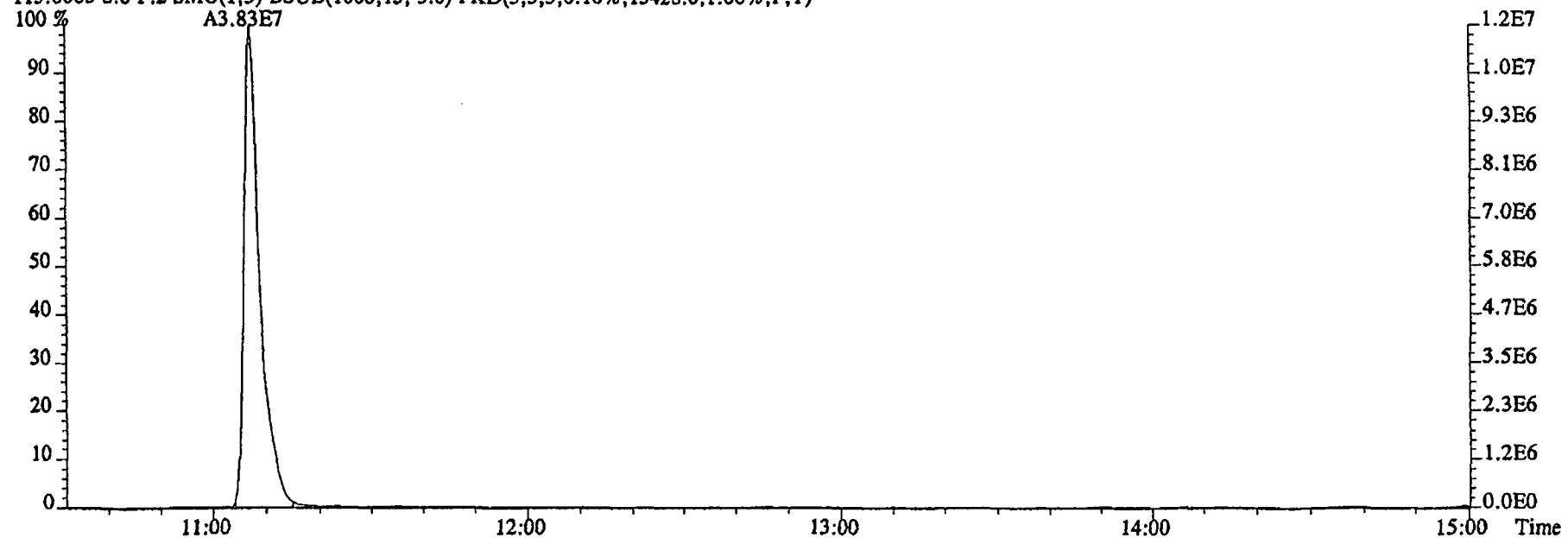
80.0857 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5632.0,1.00%,F,T)



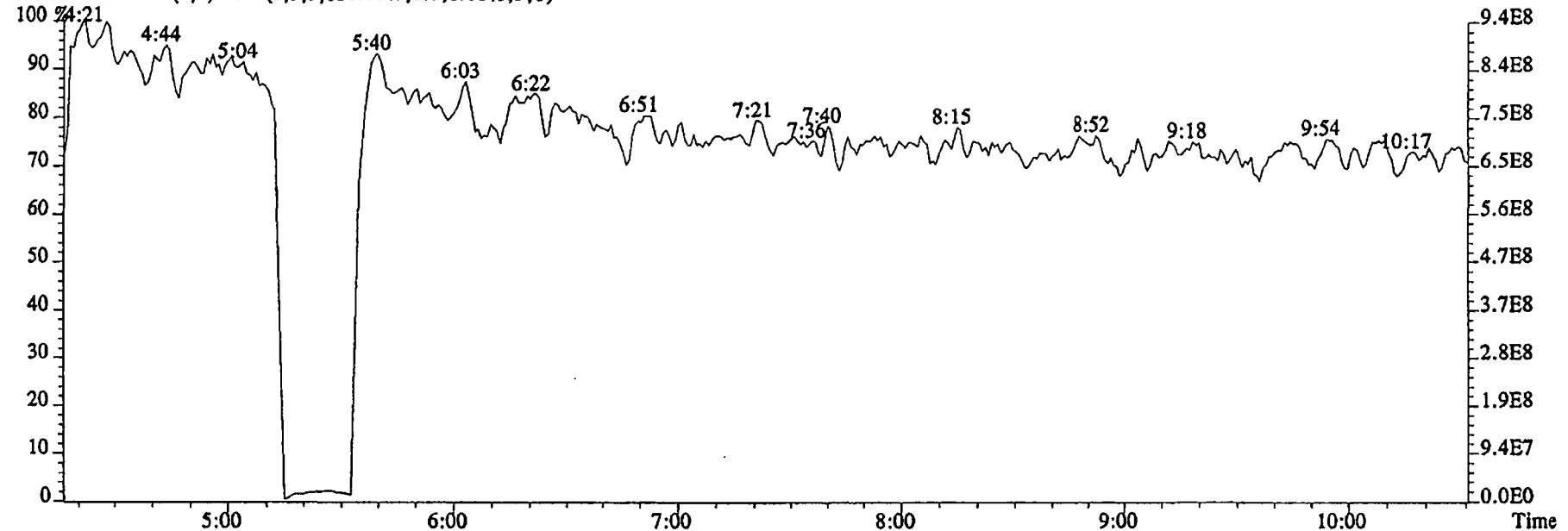
File:08DE045SP #1-625 Acq: 8-DEC-2004 18:17:53 GC EI+ Voltage SIR 70SE
Sample#6 Text:ST1208E :CS5 2350-68E Exp:NDMAVOA
113.0032 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1380424.0,1.00%,F,T)



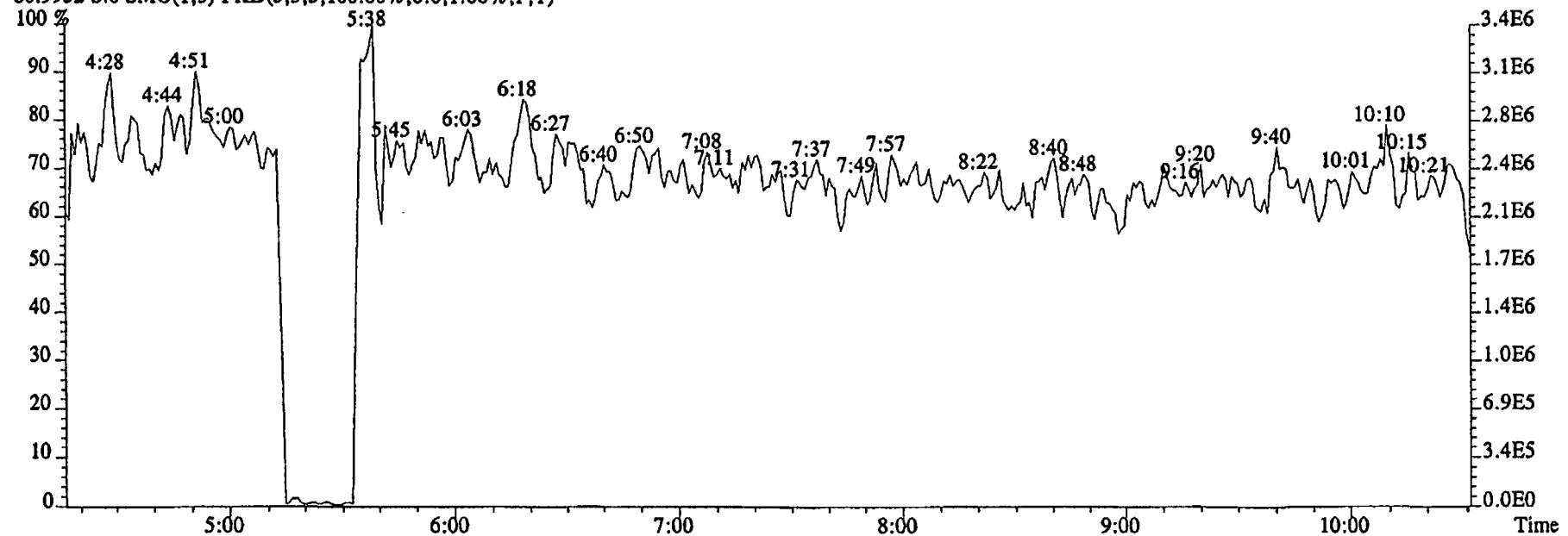
115.0003 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15428.0,1.00%,F,T)



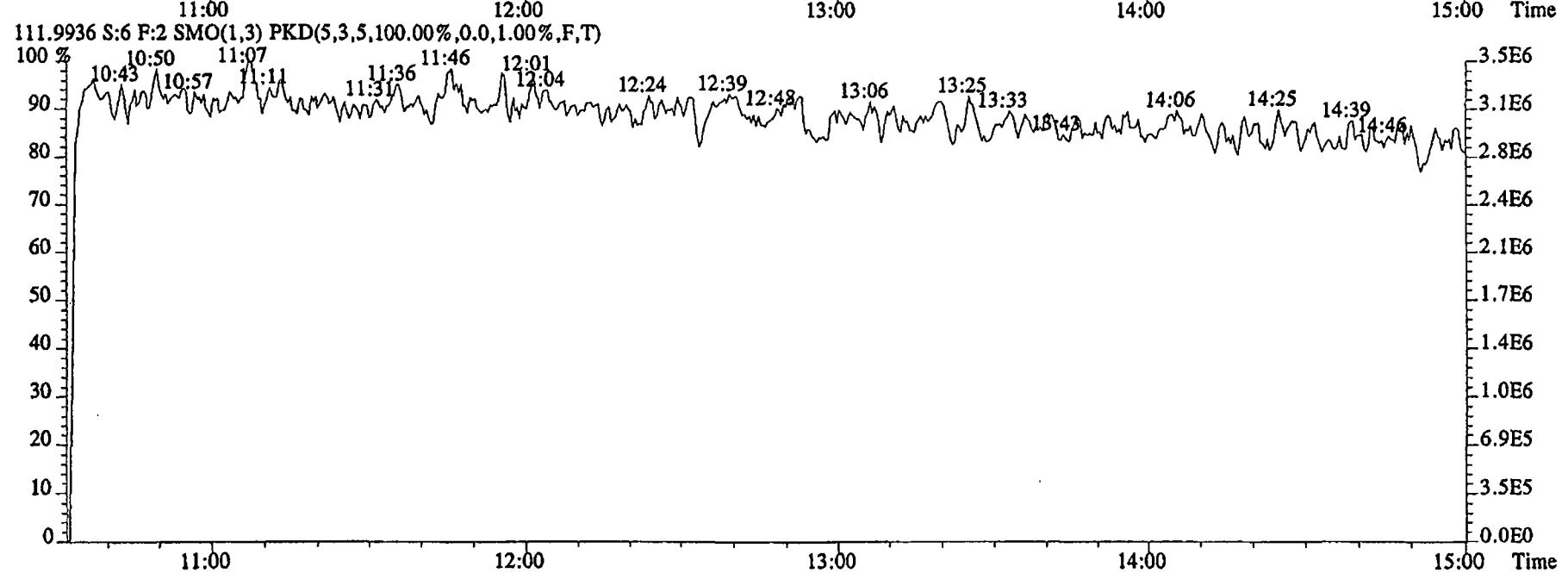
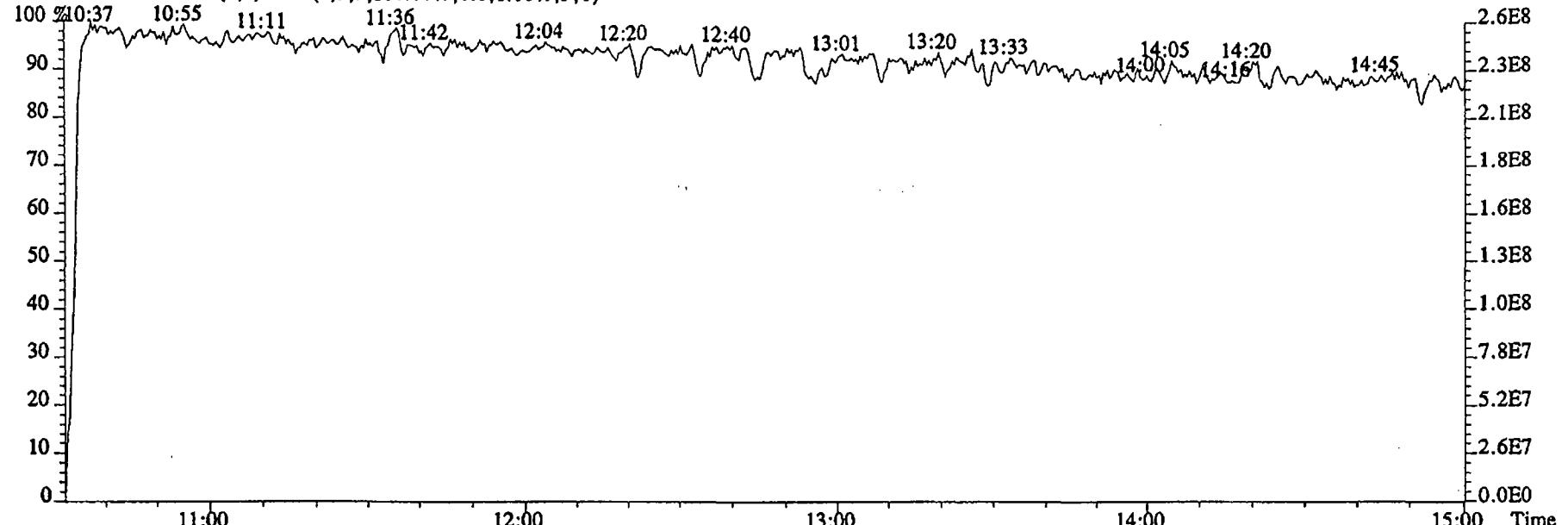
File:08DE045SP #1-462 Acq: 8-DEC-2004 18:17:53 GC El+ Voltage SIR 70SE
 Sample#6 Text:ST1208E :CS5 2350-68E Exp:NDMAVOA
 68.9952 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



80.9952 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



File:08DE045SP #1-625 Acq: 8-DEC-2004 18:17:53 GC El+ Voltage SIR 70SE
Sample#6 Text:ST1208E :CS5 2350-68E Exp:NDMAVOA
118.9920 S:6 F:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



Sample Extraction/Preparation Log
Copies and Checklists

DCS is only required when a client requests one or a MS/SD is requested and limited sample size is available.

G4L040125

6A

Please Circle Extraction Type if used:

Soxhlet / Soxhtherm / DI TCLP

Ext. 1

Ext. 2

Extraction time on: _____

Extraction time off: _____

Semivolatiles by HRGC/HRMS (1625 Modified)

Sample #	Suff	Sugg. Sample Size	Actual Sample Size	613 Extraction	* Final Volume						
				Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date	Init/Date
MB		1000 mL	1000 mL	10/27/04							
LCS											
DCS											
1											
2											
3											
4											
All Samples I.S. ID		10ul 2350-65		By: QH		Witness: NOA			Date: 10/1/04		
Added Vol/Conc.											
LCS/DCS/MS/SD N.S. ID		100ul 2350-67		By: QH		Witness: NOA			Date: 10/1/04		
Added Vol/Conc.											
All Samples CRS/Surr ID				By:		Witness:			Date:		
Added Vol/Conc.											
All Samples R.S. ID		200ul 2350-37		By: B061		Witness: T.L			Date: DEC 08 2004		
Added Vol/Conc.											

Comments (Including Dilution at FV Information):

QC Lot ID: SAME
 Batch: 4342381
 Extraction Solvents Used: DCM H₂O
 Solvent Lot #: _____

Associated Samples: G4L040206
 G4L030417
 G4L040211
 Batch: SAME
 Method: SAME
 ↓
 4342390
 10/12/04 ✓

Note: Final Volume column is used when the analyst who performed the addition of the Recovery Standard is different than the individual who concentrated the sample to the final volume. Also, if the final volume is different than the volume of Recovery Standard added, please denote in this column as well.



STL Sacramento
Data Checklist
High Resolution and Low Resolution Analyses

SEVERN
TRENT
SERVICES

Lot ID #: G4L040125

Method ID: Semivolatiles by HRGC/HRMS (1625 Modified)

Sample # 1 - 4

(For Internal COC requests only)

Date Delivered to Inst.: _____ Delivered By: _____ Delivered To: _____

DB-5 SR-2331

DB-225

Data Analyst: CP
Date initiated: 12/20/04
Reviewer: TJC
Date reviewed: 12/21/04

/
/
N/A
/

QA/QC verification:

	Initiated <u>DB-5</u> <u>SR-2331</u>	Reviewed <u>DB-5</u> <u>SR-2331</u>	Initiated <u>DB-225</u> (High Res Only)	Reviewed <u>DB-225</u> (High Res Only)
-Daily standard package(s) present?	✓	✓	NA	NA
-Method Blank present?	✓	✓	NA	NA
-LCS/DCS copy present and meets native recovery criteria?	✓	✓	NA	NA
-Internal standard recoveries within limits?*	✓(1)	✓	NA	NA
-Ion ratios within + 15% of theoretical values?	NA	N/A	NA	NA
-Other QC (Dup,MS,SD) within specs?**	NA	N/A	NA	NA

Sample Analysis:

	Initiated <u>DB-5</u> <u>SR-2331</u>	Reviewed <u>DB-5</u> <u>SR-2331</u>	Initiated <u>DB-225</u> (High Res Only)	Reviewed <u>DB-225</u> (High Res Only)
-Correct sample aliquot used?	✓	✓	NA	NA
-All raw data present?	✓	✓	NA	NA
-Standard target DL's used? If RL's are used specify: <u>DLs Values</u>	✓	✓	NA	NA
-DL's below TDL / LCL (please circle)? <u>✓</u>	✓	✓	NA	NA
-All positives reported at levels greater than method blank DL's?	✓	✓	NA	NA
-Correct RRF's used for method?	✓	✓	NA	NA
-Internal standard amounts correct for method?	✓	✓	NA	NA
-Target analytes are not saturated?	✓	✓	NA	NA
-Dilution/splitting of extract taken into account?	NA	N/A	NA	NA
-Have dilution calculations been verified?	NA	N/A	NA	NA
-Has a manual calculation for the sequence(s) been verified?	✓	✓	NA	NA
-Are retention times (RT) correct?	✓	✓	NA	NA
-Manual integrations checked?	✓	✓	NA	NA

Comments: (Use other side if necessary)

① See NCM # 62-4422

* Recovery limits:

NCASI 551: 40-120%***
Method 8290: 40-135%***
Method 1613: 25-150%***
Method 23: 40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(sur.)
CARB 428: 40-120%***
CARB 429: 50-150%***
PCBs: 25-150%***
DBD/DBF: 20-150%***
Method 8280: 40-120%***
DFLM01.0: 25-150%***
*** = -----

**RPD limits:

50%
20%
50%
50%
50%
50%
50%
50%

ROC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/07/04
Time: 14:21:44

<u>LEV</u>	<u>LEV</u>	<u>LEV</u>	<u>LEV</u>		
<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>		
-	-	Blank	-	Weights/Volumes	Expanded Deliverable
-	-	Check	-	Spike & Surrogate Worksheet	COC Completed
-	-	MS/MSD	-	Vial contains correct volume	Bench Sheet Copied
			-	Labels, greenbars, worksheets	Package Submitted to Analytical Group
			-	computer batch: correct & all match	Bench Sheet Copied per COC
				Anomalies to Extraction Method	

Extractionist:

* QC BATCH: 4342381 * PREP DATE: 12/07/04 12:00
* COMP DATE: 12/07/04 20:00

Concentrationist: _____

Reviewer/Date: / 0/00/00

**Semivolatiles by HRGC/HRMS (1625 Modified)
LIO/LIO. SEP FUNNEL (PAH, P/P, TPH, Dioxin) - Nominal**

STL Sacramento (916) 373 - 5600

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEETRun Date: 12/07/04
Time: 14:21:44

 * QC BATCH: 4342381 *
 * PREP DATE: 12/07/04 12:00
 * COMP DATE: 12/07/04 20:00

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT#, MSRUN#/ WORK ORDER</u>	<u>TEST FLGS</u>	<u>EXT</u>	<u>MTH</u>	<u>MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH'S</u>	<u>SOLVENTS</u>	<u>SPIKE STANDARD/ SURROGATE ID</u>		
								INIT ADJ1	ADJ2 EXTRACTION VOL	VOL EXCHANGE	VOL	
12/09/04 COMMENTS:	0/00/00	G4L070000-381 G0FX0-1-ACC		09	6A	WATER	1000mL 20.00uL	NA	NA	NA DCM	120.0	.0 100uL 2350-67 10uL 2350-65
12/09/04 COMMENTS:	0/00/00	G4L070000-381 G0FX0-1-ADL	R	09	6A	WATER	1000mL 20.00uL	NA	NA	NA DCM	120.0	.0 100uL 2350-67 10uL 2350-65

R = RUSH C = CLP
 E = EPA 600 D = EXP.DEL)
 M = CLIENT REQ MS/MSD
 ↑

NUMBER OF WORK ORDERS IN BATCH:

9

LOT# G4L040125

am 12-10-04

WATER, 410.4, Demand, Chemical Oxygen

CH2M Hill Inc

Client Sample ID: OC2-OW5-W-0-86

General Chemistry

Lot-Sample #....: G4L040125-001 Work Order #....: GOAGN Matrix.....: WATER
 Date Sampled...: 12/02/04 Date Received..: 12/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)	4.4 B	10.0	mg/L	MCAWW 410.4	12/07/04	4342133
				MDL.....: 3.1		

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

CH2M Hill Inc

Client Sample ID: OC2-OW5-W-1-87

General Chemistry

Lot-Sample #....: G4L040125-002 Work Order #....: G0AGR Matrix.....: WATER
Date Sampled....: 12/02/04 Date Received...: 12/03/04

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
					<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/07/04	4342133
				MDL.....: 3.1		

CH2M Hill Inc

Client Sample ID: OC2-OW8B-W-0-88

General Chemistry

Lot-Sample #....: G4L040125-003 Work Order #....: GOAGV Matrix.....: WATER
Date Sampled....: 12/02/04 Date Received...: 12/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/07/04	4342133
				MDL.....: 3.1		

CH2M Hill Inc

Client Sample ID: OC2-OW2-W-0-89

General Chemistry

Lot-Sample #....: G4L040125-004 Work Order #....: G0AGX Matrix.....: WATER
Date Sampled....: 12/02/04 Date Received..: 12/03/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	6.0 B	10.0	mg/L	MCAWW 410.4	12/07/04	4342133
MDL.....: 3.1						

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

G4L040125

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	MCAWW 410.4		4342133	4342096
002	WATER	MCAWW 410.4		4342133	4342096
003	WATER	MCAWW 410.4		4342133	4342096
004	WATER	MCAWW 410.4		4342133	4342096

METHOD BLANK REPORT

General Chemistry

Client Lot #....: G4L040125

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	PREP
		LIMIT	UNITS	ANALYSIS DATE			
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/07/04	G4L070000-133	4342133

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: G4L040125

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Chemical Oxygen Demand (COD)	106	(85 - 115)	MCAWW 410.4	Work Order #: GOEF91AC LCS Lot-Sample#: G4L070000-133 12/07/04	4342133

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #....: G4L040125

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)	49.6	52.7	mg/L	106	MCAWW	410.4	12/07/04 4342133

Work Order #: G0EF91AC LCS Lot-Sample#: G4L070000-133

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: G4L040125

Matrix.....: WATER

Date Sampled....: 12/01/04

Date Received...: 12/02/04

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	PREP
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	BATCH #
Chemical Oxygen Demand (COD)	WO#:	GX6EX1AD-MS/GX6EX1AE-MSD	MS	Lot-Sample #:	G4L020335-001	
107	(75 - 125)			MCAWW 410.4	12/07/04	4342133
99	(75 - 125)	7.2 (0-20)		MCAWW 410.4	12/07/04	4342133

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #....: G4L040125

Matrix.....: WATER

Date Sampled....: 12/01/04

Date Received..: 12/02/04

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			METHOD	PREPARATION-	PREP
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			
Chemical Oxygen Demand (COD)				WO#:	GX6EX1AD-MS/GX6EX1AE-MSD		MS Lot-Sample #:	G4L020335-001	
	ND	50.0	54.6	mg/L	107		MCAWW	410.4	12/07/04 4342133
	ND	50.0	50.8	mg/L	99	7.2	MCAWW	410.4	12/07/04 4342133

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Manual Colorimetric Analyses

***Hexavalent Chromium
COD
Sulfide
T-Phosphorous***

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LEVEL 1&2 REVIEW CHECKLIST GENERAL CHEMISTRY

LAB NUMBERS: G4L020335, G4L640125, G4L040 206

ANALYSIS: COD DATE: 12/7/04 ANALYST: PFrancis

LEVEL 1 RUN REVIEW:

1. Samples are properly preserved and verified
2. Run set-up meets standard criteria (Curve, ICV, ICB, REF...CCV,CCB..)
3. Calibration criteria met
4. Calibration verifications and second source reference are in control
5. Batch QC are in control (Blank, LCS, MSQC, LCS dup when necessary)
6. Calculations have been checked
7. QAS +/or QAPP was consulted and followed for client specifics
8. Standard Tracking # noted on benchsheet +/or runlog
9. Manual integration performed, documented and approved

YES	NO	NA
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

LEVEL 1 DATA REVIEW:

1. Benchsheet complete
2. QAS +/or QAPP consulted and followed for client specifics for data entry
3. Data entered properly
4. Copy of prep sheet and prep checklist attached to run
5. Analyst observations, HTV's, Anomalies properly documented and attached to run.

/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

Completed By & Date: PFrancis 12/7/04

LEVEL 2 REVIEW:

1. Level 1 checklist complete and verified
2. Deviations, Anomalies, Holding times checked and approved
3. Reprep/Reanalysis documented and chemist notified
4. Client specific criteria met
5. Data entry checked and released in Quantims
6. Indication on benchsheet on review and release (dated & signed)
7. Manual integration reviewed, approved, and properly documented

X	/	/
/	/	/
/	/	/
X	/	/
X	/	/
X	/	/
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Completed By & Date: BFN 12/10/04

Comments: _____

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEETRun Date: 12/07/04
Time: 8:53:23

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PRODUCTION FIGURES - WET CHEM

<u>TOTAL NUMBER</u>	<u>SAMPLE NUMBER</u>	<u>RE-RUN QC</u>	<u>RE-RUN MATRIX</u>	<u>MISC NUMBER</u>	<u>TOTAL HOURS</u>	<u>EXPANDED DELIVERABLE</u>

METHOD: VO Demand, Chemical Oxygen (410.4)
 QC BATCH #: 4342133 INITIALS: DATA ENTRY:
 PREP DATE: 12/07/04 7:30 PREP _____ INITIALS _____
 COMP DATE: 12/07/04 9:30 ANAL _____ DATE _____
 USER: FRANCISF

MS# 4342094

<u>Work Order</u>	<u>Lab Number</u>	<u>Structured Analysis</u>	<u>Exp. Del.</u>	<u>Analysis Date</u>	<u>Sample ID:</u>
		Analysis	Del.	Date	Sample ID:
GX6EX-1-AA	G-4L020335-001	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6EX-1-AE	G-4L020335-001-D	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6EX-1-AD	G-4L020335-001-S	XX I 21 VO 01	Y-D	_____	OC2-OW6-W-0-82
GX6FF-1-AA	G-4L020335-002	XX I 21 VO 01	Y-D	_____	OC2-OW1B-W-0-83
GX6F1-1-AA	G-4L020335-004	XX I 21 VO 01	Y-D	_____	OC2-OW3-W-0-85
G0AGN-1-AA	G-4L040125-001	XX I 21 VO 01	Y-D	_____	OC2-OW5-W-0-86
G0AGR-1-AA	G-4L040125-002	XX I 21 VO 01	Y-D	_____	OC2-OW5-W-1-87
G0AGV-1-AA	G-4L040125-003	XX I 21 VO 01	Y-D	_____	OC2-OW8B-W-0-88
G0AGX-1-AA	G-4L040125-004	XX I 21 VO 01	Y-D	_____	OC2-OW2-W-0-89
G0A6L-1-AA	G-4L040206-001	XX I 21 VO 01	Y-D	_____	OC2-OW8-W-0-91
G0EF9-1-AA	G-4L070000-133-B	XX I 21 VO 01	_____	_____	INTRA-LAB BLANK
G0EF9-1-AC	G-4L070000-133-C	XX I 21 VO 01	_____	_____	INTRA-LAB CHECK

Control Limits

(75-125)

(75-125)

(85-115)

PDE115

Severn Trent Laboratories, Inc.
 Inorganics Batch Review
 QC Batch 4342133

Date 12/07/2004
 Time 10:46:15

Method Code: VO Demand, Chemical Oxygen (410.4)
 Analyst: Filomena Francis

<u>Work Order</u>	<u>Result</u>	<u>Units</u>	<u>IDL/Dil</u>	<u>Prep. - Anal.</u>	<u>Total Solids</u>	<u>PSRL Flag</u>	<u>R/R</u>	<u>Rounded Result</u>	<u>Output IDL</u>	<u>Dil.</u>
GX6EX-1-AA	1.2423	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
GX6FF-1-AA	3.7660	mg/L	10	12/07/04	.00	N		3.8 B	10.0	1.00
GX6F1-1-AA	6.6051	mg/L	10	12/07/04	.00	N		6.6 B	10.0	1.00
G0AGN-1-AA	4.3969	mg/L	10	12/07/04	.00	N		4.4 B	10.0	1.00
G0AGR-1-AA	1.5675	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
G0AGV-1-AA	ND	mg/L	10	12/07/04	.00	N		ND	10.0	1.00
G0AGX-1-AA	5.9742	mg/L	10	12/07/04	.00	N		6.0 B	10.0	1.00
G0A6L-1-AA	81.054	mg/L	10	12/07/04	.00	N		81.1	10.0	1.00
G0EF9-1-AA	ND	mg/L	10	12/07/04	.00			ND	10	1.00

Notes:

B Estimated result. Result is less than RL.

Check Standard

<u>Work Order</u>	<u>Exception Code</u>	<u>True Spike</u>	<u>Measured Spike</u>	<u>Percent Recovered</u>	<u>Prep. - Anal.</u>	<u>Control Limits</u> (85-115)	<u>Dil.</u>
GUEF9-1-AC		49.6	52.6624	106.17	12/07/04		1.00

Notes:**MS - MSD**

<u>Work Order</u>	<u>Exception Code</u>	<u>Measured Sample</u>	<u>True Spike</u>	<u>Measured SPIKE</u>	<u>Measured Dup.</u>	<u>Pct.</u>	<u>Recovered DUP</u>	<u>RPD</u>	<u>Prep. - Anal.</u>	<u>Dil.</u>
GX6EX-1-AD		1.2423	50	54.555	50.770	106.62	99.05	7.18	12/07/04	1.00

Notes:

TEST	TOTAL #	SAMPLE #	QC #	PRODUCTION TOTALS				HOURS
				MATRIX #	OTHER #	MISC #		
	0	0	0	0	0	0	0	.0

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CURVE CALCULATION BENCHSHEET
(SOP # SAC-WC-0040)

ANALYST REVIEWED BY BATCH NO.	FRANCISF <i>BR</i> 4342133	ANALYSIS DATE REVIEW DATE MS RUN NO.	12/07/04 12/10/04 4342096	METHOD NO. INSTRUMENT ID: ICV SOURCE:	EPA 410.4 SP2 2392-WC-59-4	FILE CCV SOURCE:	120704A 2392-WC-59-7	
COD (Low)								
Lab ID	Time	True Conc. mg/L	Background Absorbance	Sample Aliquot gram	Extract Volume mL	Dilution	Absorbance	Raw Result
1 Std0	10:33	0					0.478	-0.33500
2 Std1	10:33	10					0.444	10.39066
3 Std2	10:32	50					0.317	50.45414
4 Std3	10:32	100					0.163	99.03507
5 Std4	10:32	150					0	150.45513
6								
7								
8								
9								
10 LCS/ICV:G4L023	10:33	49.6		2	2	1	0.31	52.66237
11 BLK/ICB:G4L023	10:34			2	2	1	0.485	-2.54323
12 GX6EX	10:34			2	2	1	0.473	1.24230
13 GX6EX-S	10:34	50		2	2	1	0.304	54.55513
14 GX6EX-D	10:35	50		2	2	1	0.316	50.76960
15 GX6FF	10:35			2	2	1	0.465	3.76598
16 GX6F1	10:35			2	2	1	0.456	6.60513
17 G0AGN	10:35			2	2	1	0.463	4.39691
18 G0AGR	10:36			2	1	1	0.467	3.13506
19 G0AGV	10:36			2	2	1	0.488	-3.48961
20 G0AGX	10:36			2	2	1	0.458	5.97421
21 G0A6L	10:36			2	2	1	0.22	81.05382
22 CCV	10:37	50		2	2	1	0.317	50.45414
23 CCB	10:37			2	2	1	0.474	0.92684
24								
25								
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